

Goodfellow

Serving The Needs of Science and Industry Worldwide

Au service de la Science et de l'Industrie dans le monde entier

Weltweiter Lieferant für Wissenschaft und Industrie

Metals and Alloys
Métaux et Alliages
Metalle und Legierungen

Ceramics
Céramiques
Keramiken

Polymers
Polymères
Polymere

Composites
Composites
Verbundwerkstoffe



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Standard Price List for Silver

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Introduction

Goodfellow is well known as a specialist supplier of small to medium size quantities of metals, alloys, ceramics, polymers and other materials to meet the research, development and specialist production requirements of science and industry worldwide. We realise that "small" means different things to different people, but we consider small to mean any quantity from a few grammes to a few kilos.

Goodfellow offers two distinct services to meet the requirements of our customers:

- The first meets the needs of our customers who need small quantities of products from our standard range of materials within 24-48 hours.
- The second service is for those who require larger quantities or further processing of our standard products or who need an item which falls within our general area of supply expertise.

The range of materials offered by Goodfellow is extensive, as are the forms in which the various products are available. This Catalog provides a detailed overview of our standard products which are available from stock. Full details of all of these items, including prices and technical information, can be found in our web Catalog at www.goodfellowusa.com.

Materials

Metals and Alloys

Goodfellow supplies virtually all of the pure metals from Aluminum to Zirconium as well as a comprehensive range of alloys. Most are available in a variety of forms, including rod, wire and foil. The Catalog details those materials which are available as standard products from stock. Custom-made items are also available, so please contact us if you are unable to identify the item you require.

Ceramics

The ceramic materials offered by Goodfellow have been carefully chosen and include both the established as well as more recently developed products. All are available as either standard or custom-made products in a variety of forms and sizes. The Catalog details those items which are

available from stock. For ceramic components made to customer drawings, our Ceramic and Glass Division would be delighted to help. Please visit www.goodfellow-ceramics.com for further information.

Polymers

The range of polymers supplied by Goodfellow is broad and includes both the familiar as well as some of the more unusual or recently developed materials. The Catalog details those items which are available from stock; please contact us if you are unable to find the item you specifically require.

Compounds & Intermetallics

Goodfellow can supply aluminides, borides and silicides as well as other intermetallics and compounds. The majority of these items are made to order, and the Catalog details those which are available. Please contact us with details of your requirements.

Composites

Some examples of these materials are listed in the Catalog. As some of these are manufactured on a custom-made basis, please contact us with details of your requirements.

Glasses

Goodfellow offers two distinct types of glass products. The first are generally silica-based and transparent. Generally, these products are made to order for customers, so we do not list them in our Catalog, however, they are available through the Goodfellow Ceramic and Glass Division. Please contact us with your requirements.

The second type of glass product is commonly referred to as "metallic glasses" or "glassy metals". In contrast to crystalline metals and alloys with highly ordered atomic structures, these are non-crystalline (amorphous) metals or, more usually, alloys. Our Catalog details those glassy metals which are available from stock; please contact us if you are unable to find the item you specifically require.

Product Descriptions



Bar

A straight length of rectangular, square or oval section material.

Tolerances

Section dimensions:	≤ 10mm	± 10%
	> 10mm	± 1mm
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / -1%



Bolt

A threaded pin that can be screwed into a nut or a tapped hole to fasten items together. Bolts are available with different head styles and also in metric and inch-threaded sizes.

Tolerances

See item



Chopped Fiber

Fibers cut into short lengths called cut, staple or chopped fiber.

Tolerances

Fiber diameter:	± 25%
Number of strands:	± 10%
Tex number:	± 10%
Length:	+ 5% / -1%



Crucible

A vessel in which other materials may be heated or melted, usually at high temperatures.

Tolerances

Height:	± 10%
Inside Dimensions:	± 10%
Outside Dimensions:	± 10%



Fabric

Woven fabrics are made by the regular interlacing of two arrays of yarns at right angles to each other, these being referred to as the warp and weft (see also Non-woven fabric).

Tolerances

Fabric thickness:	± 25%
Number of yarns:	± 10%
Tex number:	± 10%
Size (linear dimension):	< 100mm ± 5mm
	≥ 100mm ± 5%



Fiber

Yarns or tows consisting of several approximately parallel individual filaments, each filament usually being smaller in diameter than a monofilament. Yarns contain a defined number of filaments, typically three to several hundred; tows contain thousands of filaments whose number is only defined approximately. Both are primarily specified by their linear density measured in "tex", the weight in grams of a 1km length of material.

Tolerances

Fiber diameter:	± 25%
Number of strands:	± 10%
Tex number:	± 10%
Length:	+ 5% / -1%



Film

A non-metallic sheet material with a thickness < 0.5mm.

Tolerances

Thickness:	± 20%
Size (linear dimension):	< 100mm ± 1mm
	≥ 100mm + 2% / -1%



Flake

Flat, irregularly shaped pieces of material. A maximum flake size is indicated but individual flakes may vary greatly in size.

Tolerances

Dimensions shown are nominal

Product Descriptions



Foam

A low density, permeable structure of cells and continuous ligaments offering a high surface area to volume ratio, and also a high strength to weight ratio. Owing to the nature of this material, dimensions are nominal.



Foil

Thin sheets of pure metal and metal alloys. Due to their fragile nature, some foils are coated on one side with an acrylic or polyester support. Where foils are supported they are indicated in the detailed item description.

Tolerances

Thickness: < 0.010mm ± 25%
 0.01-0.05mm ± 15%
 > 0.050mm ± 10%
 Size (linear dimension): < 100mm ± 1mm
 ≥ 100mm + 2% / -1%



Granule

Pellets of an approximately regular shape. Granules may vary in size and, therefore, the dimensions stated are nominal. In addition, the shape of a granule may vary from item to item.

Tolerances

Dimensions shown are nominal



Honeycomb

A cellular structure similar in appearance to natural honeycomb. Owing to the nature of this material, dimensions are nominal.



Insulated Wire

A single or multiple flexible strand of metal or alloy with an insulating sheath.

Tolerances

Wire diameter: ± 10%
 Length: + 5% / -1%
 Insulation thickness: Nominal values only



Laminate

Layers of material which have been bonded together by the use of heat, pressure and, possibly, adhesive.

Tolerances

Thickness: ± 10%
 Size (linear dimension): ≤ 100mm ± 1mm
 > 100mm + 2% / -1%



Lump

A solid piece of material with no defined shape.

Tolerances

Dimensions shown are nominal



Mesh

Mesh is available as either a woven wire or electroformed product; in all cases, the quoted aperture sizes are nominal. Wire mesh: a material which is woven from metal wires to provide a thin grid with a regular series of holes. Electroformed mesh: a product made by electroplating the mesh geometry through a mask onto a substrate which is subsequently etched away.

Tolerances

Thickness: woven: ± 10%
 electroformed: ± 20%
 Wire diameter: ± 10%
 Size (linear dimension): < 100mm ± 1mm
 ≥ 100mm + 2% / -1%



Metallized Film

Film which is coated with a metal. The thickness of the metal is measured and described in terms of the material's specific electrical resistance in ohms per square.

Tolerances

Thickness: ± 10%
 Size (linear dimension): < 100mm ± 1mm
 ≥ 100mm + 2% / -1%

Product Descriptions



Microfoil

An extremely thin sheet of metal or alloy mounted on a permanent support. This support **cannot** be removed without destroying the Microfoil.

Tolerances

Thickness: $\pm 30\%$
 Size: $\pm 20\%$



Microleaf

An extremely thin sheet of metal mounted on a removable support. Microleaf is not available for metals which are too brittle to be free standing.

Tolerances

Thickness: $\pm 30\%$
 Size: $\pm 20\%$



Monofilament

A single strand of a non-metallic material.

Tolerances

Diameter: $\pm 20\%$
 Length: $+ 5\% / -1\%$



Non-Woven Fabric

Non-woven fabrics are made by methods other than weaving or knitting, the yarns and fibers being held together, often quite loosely, by means other than geometric interlacing. Due to the open and porous nature of this material, all other dimensions are nominal.

Tolerances

Size (linear dimension): $< 100\text{mm}$ $\pm 5\text{mm}$
 $\geq 100\text{mm}$ $\pm 5\%$



Nut

Generally a flat piece of material with a threaded hole which can be screwed onto a bolt to fasten items together. Nuts typically have a hexagonal external shape. Nuts are available in metric and inch-threaded sizes.

Tolerances

See item



Powder

Small particles with an approximately defined size range. Those materials described as alloy precursors are not true alloys - they are made by sintering a blend of powders of the component metals to achieve alloying by diffusion. The resultant cake is ground and sieved to the required particle size range. Unless otherwise stated, the particle sizes shown are for guidance only. We do not guarantee either any particular size distribution between the quoted minimum and maximum sizes, or a specific particle shape.

Tolerances

Dimensions shown are nominal



Rod

A straight length of circular section material.

Tolerances

Diameter:	$\leq 10\text{mm}$	$\pm 10\%$
	Polymer	$+ 20\% / -10\%$
	Ceramic	$+ 20\% / -10\%$
$> 10\text{mm}$		$\pm 5\%$
	Ceramic	$+ 20\% / -10\%$
	Polymer	$+ 20\% / -10\%$
Length:	$< 100\text{mm}$	$\pm 1\text{mm}$
	$\geq 100\text{mm}$	$+ 5\% / -1\%$

Product Descriptions



Sheet

Flat material with a thickness >0.5mm.

Tolerances

Thickness:		± 10%
	Ceramic	± 20%
	Composite	± 20%
	Polymer	± 20%
Size (linear dimension):	< 100mm	± 1mm
	≥ 100mm	+ 2% / - 1%



Single Crystal

A material grown as a monocrystal, generally to a specific orientation, dimension and surface finish. It may contain a dopant. Single crystals are usually made to order.

Tolerances

Orientation:	± 3°
Size:	Sizes shown are nominal



Sphere

A regular solid or hollow three-dimensional form in which every cross-section is a circle. Spheres are available with standard or precision tolerances, and can be supplied with different surface finishes depending on the material.

Tolerances

Diameter (standard):	± 5%
Diameter (precision):	see item



Sputtering Target

A high purity material used as a source for sputtering, a cold vaporization process in which atoms are physically removed from the target surface by ion bombardment.

Tolerances

Thickness:	± 0.5mm
Size:	± 0.5mm



Tube

A hollow length of material normally circular in section. Most tubes are straight except those made of flexible polymer.

Tolerances

Outside diameter:	≤ 2mm	± 0.05mm
	Polymer	± 10%
	Ceramic	± 10%
	≤ 5mm	± 0.1mm
	Polymer	± 10%
	Ceramic	± 10%
	> 5mm	± 5%
	Polymer	± 10%
	Ceramic	± 10%
Wall thickness:		± 10%
	Polymer	± 20%
	Ceramic	± 20%
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / - 1%



Washer

A thin, flat piece of material with a hole in the middle, used in conjunction with bolts and nuts to distribute the load of a threaded fastener.

Tolerances

See item



Wire

A single or multiple flexible strand of pure metal or alloy.

Tolerances

Wire diameter:	± 10%
Length:	+ 5% / - 1%

Hazards Information

HAZARDS

All materials listed in this catalog, whatever the quantity supplied, are sold for research or development purposes. We make no warranty that the materials are fit for a particular purpose. In purchasing materials from this catalog, customers should be aware that there may be hazards associated with their use and in the handling of them. Complete toxicological or hazard investigations are the responsibility of the customer. Ingestion or contact with the human body may be harmful. The responsibility for the safe use of our products rests with the customer. All materials should be handled by qualified personnel familiar with laboratory procedures and who are familiar with the nature of the material and any necessary precautions which should be taken in the handling, use and storage of the products. The customer shall be responsible for the control and use of the products offered in this catalog whether alone or in combination with other articles or substances or in any other manner whatsoever.

HAZARD SYMBOLS



C

Corrosive

Chemicals which may destroy living tissue when in contact with them.



D

Dangerous when wet

Chemicals which, in contact with water or damp air, evolve highly flammable or toxic gases and vapours in dangerous quantities.



E

Explosive

Chemicals which may react exothermically without atmospheric oxygen, quickly evolving gases, and which under defined test conditions detonate, quickly deflagrate or upon heating explode when partially confined.



F+

Extremely Flammable

Chemicals which when finely divided (small particle size) are liable to ignite spontaneously.



Xn

Harmful

Chemicals which may cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.



F

Highly flammable

Chemicals which will ignite after contact with flame, or which will evolve highly flammable gases in contact with water.



Xi

Irritant

Non-corrosive chemicals which, through immediate, prolonged or repeated contact with the skin or mucous membrane may cause inflammation.



R

Radioactive

Chemicals which will emit ionising radiation without being subject to irradiation. General precautions for Toxic chemicals apply to those of low activity. For chemicals of medium or high activity special regulations apply.



T

Toxic

Chemicals which may cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.



T+

Very Toxic

Chemicals which in low quantities cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.

General Information

Analyses

Typical Analysis :

Where appropriate a typical analysis is given. All figures are parts per million (ppm) by weight unless otherwise stated. It must be emphasised that this data is "typical" and no guarantee is given that the material supplied will conform to these analyses. The compositions shown under alloy headings are generally weight percent. Exceptions are the glassy alloys and the rare earth magnets where the convention of using atomic ratio is followed.

Purity

Purities listed are quoted with respect to total metallic impurities. Typical analyses may give additional information about likely non-metallic impurities.

High Purity

For materials described in the catalog as High Purity, the actual analysis of metallic impurities will be supplied free of charge. For other items, an actual analysis can be supplied and a charge will be made for the analysis and for the sample used.

If you require an analysis please tell us whether you require analysis of metallic impurities only or metallic and gaseous. Where an analysis is required the shipment of your order may be delayed.

Supports

Some items from our range of foils need to be supported on one side of the foil to enable both you and us to handle these very delicate materials. Two types of support can be used, the choice being governed by the material. Wherever possible we use a temporary support, a permanent support only being used when the material is brittle (for example Chromium or Manganese).

The temporary support is Acrylic, approximately 0.2mm thick. This may be removed by dissolving in 2-Propanone (Acetone).

Our permanent support is Polyester, thickness 0.125mm, which is hot-press laminated to one face of the foil. It **cannot** be removed without destroying the foil.

Microfoil is mounted on a permanent 3.5µm polyester support. This support **cannot** be removed without destroying the Microfoil.

Microleaf is mounted on a specially treated support which allows separation of the metal film from the support. Full instructions on the method of removal are issued with each Microleaf supplied.

Light Tight (LT) & Not Light Tested (NLT)

Light tight (LT) foils are supplied without visible pinholes after examination without magnification. Foils 0.025mm or more in thickness are supplied LT unless otherwise stated.

Foils less than 0.025mm thick are normally supplied Not-Light Tested (NLT), and will normally contain pinholes but may occasionally be free from pinholes. Foils less than 0.025mm in thickness can often be supplied LT but may incur additional charges. Please specify if you require LT foils.

Vacuum tight

Vacuum tight foils show no detectable leakage when tested with a helium mass spectrometer with a sensitivity of 10^{-9} atm-cm³.s⁻¹.

Continuous Lengths

If you require material in continuous lengths please tell us when you place your order. Unless otherwise specified, we reserve the right to supply in more than one length.

Technical Data and Information

All information and technical data are given as a guide only. Although every effort has been made to ensure that the information is correct, no warranty is given as to its completeness or accuracy.

Tolerances

For details of our standard tolerances, please refer to the Product Description section. In many cases, closer tolerances are available but may be subject to an extra charge. If you have any special requirements it is important that you tell us at the time of ordering. This includes special tolerances, dimensional uniformity or any other special requirement which you may have (for example edge finish, packaging, labelling etc.). Please indicate precisely what is required and we shall do our best to meet your specification.

Order information

General Information

There are over 70,000 stock packs listed and if you cannot find what you need amongst them, please ask for special sizes, thicknesses, tolerances, dimensions or larger quantities. We are also able to offer many other pure metals, alloys, polymers and ceramics to special order.

Prices

All the prices listed are total (lot) prices for the sizes and quantities listed.

Prices shown are in US\$ and include free delivery by our standard 48 hour service except for those items marked as "special offer" or dangerous goods with transport restriction. Prices are subject to change without notice and orders will be invoiced at prices ruling on the date of despatch.

Transport Restriction

Some of the materials supplied by Goodfellow are subject to special transport restrictions. Additional shipment charges may apply which are dependent on destination. Please check the individual item on our website or contact us for details of the charges.

If you intend to have the material transported or sent onwards please ensure that you are aware of the relevant transport restrictions.

Delivery

Delivery by UPS or Federal Express is included in the prices, although alternative methods may be used depending on the materials ordered.

Split Shipment

All orders are accepted for one shipment on one date to one address. A charge will be made for split shipments made at the customer's request.

Special Analysis, Supports or Tolerances

An extra charge is made for non-standard supports, alternative tolerances and certificates of analysis. The analysis is free of charge for items marked "High Purity".

Cancellations

A charge for cancellation of orders may be made. The amount will depend on the circumstances.

Express Service

Please inform us if you need to have your goods shipped urgently. An administrative charge will be made for this service, details can be found on our website.

Shipment

We aim to have all items listed in this catalog in stock in the quantities and sizes listed. We can only undertake to ship an order on a particular date. The date of delivery at the customer's address is subject to the normal variations of the delivery service used.

Despatch

Orders will normally be shipped within 48 hours of receipt.

Non-delivery

If we have notified you of the shipment of goods and you have not received delivery within 5 days, please contact us.

Insurance

All consignments will be insured by us against the usual risks unless we are instructed in writing to the contrary.

Export Restrictions

A UK Government export licence may be required for some items to some destinations. If the item you require needs a special export licence or an end-use statement we will inform you at the time you order.

Materials Handling

Many of our materials are extremely delicate and it is essential every care is taken when handling them. Special attention is drawn to the extreme fragility of Microfoil, Microleaf and thinner and finer materials.

All materials are carefully packed to ensure safe transport of goods to your address. We do not accept responsibility for damage caused by mishandling once the outer transit packaging has been removed.

Terms of payment

Our normal terms of payment are net 30 days from date of invoice. Any alternative terms of payment are to be agreed with us in writing at the time of placing an order. Customers may be asked to pay cash with order or cash against pro-forma

Order information

invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

Credit account

We endeavour to keep our costs down and customers are requested to pay our invoices on time. We reserve the right to delay delivery if there are overdue invoices on the account. Accounts which remain unpaid beyond the due date may incur an interest charge at a rate of 2% per month.

Credit card payments

We also accept payment using the following credit and charge cards:

Mastercard, VISA and American Express.

VAT

VAT number for Goodfellow Cambridge: GB 212 8527 79

UK

VAT will be added to the invoice at the rate ruling at the date of invoice. Where a customer is exempt, VAT will be charged unless we receive a copy of the exemption form at the time the order is placed.

EU

Customers registered for VAT who provide their local registration number will not be charged UK VAT.

Customers who are exempt from VAT will not be charged UK VAT provided we are given a copy of their exemption form at the time the goods are ordered.

Customers not registered for VAT or who fail to give us their registration number will be charged UK VAT at the current rate.

Export

All exports to countries outside the EU are zero-rated for UK VAT unless the invoice is being paid from within the EU.

Return of goods

We will only accept return of goods provided we are contacted BEFORE the goods are returned. When we agree to the return we will issue a Goods Return Number and give instructions for the method of return of the goods. Goods will not be accepted for

return without a valid Goods Return Number. Due to the nature of some of our materials, it is imperative that you check any possible transport restrictions with your proposed freight company.

Claims

Great care is taken during manufacture and packing and all items are carefully inspected before shipment. Any claim in respect of short delivery, incorrect material or defective quality must be notified to us in writing within three days of delivery. Please retain ALL packaging for our inspection. Our liability for any such claim shall not exceed the cost of replacement of the goods free of charge, or crediting the customer with the invoice value thereof.

Goods ordered in error

We do not accept responsibility for customers' errors in ordering. The amount of credit for returned goods will be at our discretion. Where we accept returned goods a restocking charge will be made.

Conditions of sale

All orders, contracts and quotations are subject to our standard terms and conditions of sale.

Information and statements provided are indicative only and do not form part of any offer or contract.

Exclusions

We supply materials according to our specification. All conditions warranties and representations regarding the quality, fitness for purpose or state, size, shape, capacity or color of goods supplied whether expressed or implied by common law or statute or otherwise are hereby expressly excluded. We shall not be liable for any damage direct or consequential arising from the use of goods supplied by us however such damage is caused, nor for delay in delivery.

Law

Customers in the USA: Contracts between Goodfellow Corporation and the customer shall be deemed to be subject in all respects to the laws of the Commonwealth of Pennsylvania, or the United States of America.

Customers in France: Contracts between Goodfellow SARL and the customer shall be deemed to be subject in all respects to French law unless otherwise agreed in writing

Order information

Customers in Germany: Contracts between Goodfellow GmbH and the customer shall be deemed to be subject in all respects to German law unless otherwise agreed in writing

Customers in the UK and all other countries: Contracts between Goodfellow Cambridge Limited and the customer shall be deemed to be subject in all respects to English law unless otherwise agreed in writing.

Copies of our General Terms and Conditions are available upon request or can be downloaded from our websites at www.goodfellow.com or www.goodfellowusa.com.

Company Details

Company Structure

The Goodfellow Group consists of five companies:

Goodfellow Cambridge Limited

Goodfellow was established in the City of London in 1946. The Company now has subsidiary operations in France, Germany and North America with the Group's research laboratories, workshop facilities & central administration located in Huntingdon, England.

Goodfellow Corporation

Established at the same time as our associate company in Germany, Goodfellow Corporation was set up to service the requirements of our customers in the USA.

Goodfellow GmbH

Since 1989, this member of the Goodfellow group of companies has been serving the needs of our German speaking customers within Europe.

Goodfellow SARL

Goodfellow established an operation in France in 1993 to meet the needs of our French-speaking customers in Europe.

Goodfellow (Shanghai) Trading Co., Ltd

Goodfellow established a representative office in Shanghai in 2006, and in 2012 followed this with the creation of a fully-fledged trading company, servicing the research and specialist manufacturing requirements of the Chinese market.

COMPANY DETAILS

Goodfellow Cambridge Limited

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Registered in Hamburg No. HRB 152991
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Goodfellow (Shanghai) Trading Co., Ltd

Room 803, Centro Build, No. 568 Hengfeng Road
SHANGHAI
200070
The People's Republic of China

Conditions of Sale

1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:-

- "Buyer" the individual firm company or other party from whom an order to supply Goods and/or Services is received by the Seller;
- "Conditions" the standard terms and conditions of sale of the Seller as set out herein and includes any additional terms and conditions of sale agreed in writing by the Seller;
- "Contract" a contract for the Supply of Goods and/or Services by the Seller to the Buyer;
- "Date of Delivery" the date on which delivery of the Goods or Services takes place pursuant to Condition 7;
- "Goods" the goods which the Seller is to supply (or, in relation to Condition 11, the goods in respect of which the Seller is to provide Services) under the Contract and includes any of them or any part of them and where the context so admits includes raw materials, processed materials and/or manufactured products whether processed or manufactured by the Seller or not;
- "Prepayment" a payment to be made by the Buyer pursuant to Condition 6.2 to be used at the Seller's discretion for the purchase of materials and/or towards the costs of labour and other costs relating to the supply of Goods;
- "Recommendations for Use" the recommendations (if any) relating to the storage, handling, application and/or use of the Goods contained in the published literature of the Seller (or, if relevant, a Supplier) or any recommendations made in Writing by an authorised representative of the Seller (or, if relevant, a Supplier);
- "Seller" Goodfellow Cambridge Limited and any subsidiary or holding company or associate (as such terms are defined in the Companies Act 1985 (as amended)) of the said company;
- "Services" the work or services or any of them to be provided by the Seller under the Contract;
- "Supplier" any person, firm or company who or which supplies materials to the Seller which make up the Goods which are to be supplied to the Buyer;

1.1.2 words importing the singular number shall include the plural and vice versa, words importing one gender shall include all genders, and words importing persons shall include bodies corporate, unincorporated associations and partnerships

- 1.2 If satisfactory references and information on the Buyer are not provided within seven days of a request therefore by the Seller, or if, following the provision of such information, the Seller is unable to obtain satisfactory trade indemnity or similar cover in respect of its dealings with the Buyer, the Seller may terminate the Contract and the rights and liabilities of the parties shall be the same as if the Contract had been cancelled in accordance with the provisions of Condition 10.2
- 1.3 The seller reserves the right to assign, sub-contract the Contract or any part thereof. The Buyer shall not be entitled to assign the benefit or burden of the Contract without the consent in writing of the Seller
- 1.4 In relation to all obligations of the Buyer under these Conditions, the time of performance is of the essence
- 1.5 The legal construction of these Conditions shall not be effected by their headings which are for convenience of reference only

2 ORDERS

- 2.1 Notwithstanding that the Seller may have given a detailed quotation or estimate either verbally or in writing no order shall be binding on the Seller unless and until it has been acknowledged in writing by the Seller or the Goods are delivered or the Services are provided by the Seller to the Buyer pursuant to the order
- 2.2 In order to avoid duplication of orders the Buyer shall be responsible for ensuring that any confirmation of an order previously placed is prominently marked as being a confirmation and not a new order. The Buyer acknowledges that any order or confirmation of order which is not so marked may be treated and accepted by the Seller as a new order to create a Contract in addition to any Contract arising out of the previously placed order
- 2.3 These Conditions are incorporated in the Contract and together with any matter set out in the Seller's quotation or acceptance/acknowledgement of order contain the entire obligations between the Seller and the Buyer. In the case of any inconsistency between any letter or quotation incorporating or referring to these Conditions and any order, letter or form of contract sent by the Buyer to the Seller, whatever may be their respective dates, the provisions of these Conditions shall prevail. In the event of the Seller entering into the Contract without the Seller having submitted a written quotation or other letter or document incorporating or referring to these Conditions but in circumstances where the Buyer has had prior notice of these Conditions then all Goods or Services supplied shall be subject to these Conditions
- 2.4 No variation of the Contract by the Buyer shall be binding upon the Seller unless made in Writing and signed on behalf of the Seller. In the event of such variation the Buyer shall indemnify and keep indemnified the Seller in full against all loss, which term shall include (but without prejudice to the generality thereof) loss of profit, costs (including the cost of labour and materials), damages, charges and expenses incurred (directly or indirectly) by the Seller as a result of such variation

2.5 Any representations (except fraudulent misrepresentations) or warranties made by or on behalf of the Seller prior to the Contract (whether verbally or in writing) are hereby expressly excluded and shall be of no effect

3 DESCRIPTION

- 3.1 Any figures, statements, descriptions, illustrations, photographs, drawings, weights or any other matters contained in the Seller's catalogues, pamphlets, price lists or advertising literature are not guaranteed to be accurate and are intended merely to represent a general picture of the Seller's products and shall not form part of the Contract nor be regarded as a warranty or representation relating to the Goods or Services
- 3.2 The Seller reserves the right to amend the specification of its products and services from time to time so that the descriptions thereof as set out in its catalogues, pamphlets, price lists or advertising literature may not be identical with those set out in the Seller's quotation and the Buyer is advised to check the specification set out in the Seller's quotation before placing an order

4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

- 4.1 Where goods are supplied to the Buyer's own specification, or where standard goods of the Seller are altered in accordance with the Buyer's instructions the Buyer warrants and undertakes full responsibility for the suitability and fitness of the specification, pattern or design but also that such specification, pattern or design does not infringe any patent, trade mark, registered design, copyright or any other proprietary right of any third party and the Buyer shall indemnify and keep the Seller indemnified in full against any loss, damage or expense whatsoever (including costs) which the Seller may incur in or arising from the performance of the Contract by reason of any infringement of any such patent, trade mark, registered design, copyright or any other proprietary right
- 4.2 The Seller reserves the right to change the Buyer's specification as required to ensure that the Goods comply with any health, safety or other statutory requirement or provision and no such change by the Seller will constitute a breach of contract or impose upon the Seller any liability whatsoever
- 4.3 Unless otherwise agreed in writing, the Seller will be the sole owner of all inventions, formulations, tools, patterns, designs or other similar items and the copyright in all documents and drawings made or produced by it in preparing a quotation for the Buyer or in the course of work on any Contract with the Buyer

5 QUOTATIONS

5.1 The Seller's quotations are provisional in so far as they are subject to alteration by reference to any changes in the price of raw materials, any item to be acquired by the Seller from a third party, rates of wages, other costs of production and any other circumstances beyond the Seller's control taking place between the date of the quotation and the Buyer's placing of an order in respect thereof

6 PRICE

- 6.1 The Seller shall be entitled to adjust the Contract price of the Goods or Services whether before or after the making of the Contract in the event of any variation in the cost to the Seller of supplying the same or any part thereof caused by:-
- 6.1.1 any increase in the cost of materials required by the Seller for the completion of the Contract; or
- 6.1.2 any increase in wages or production and manufacturing costs or other overheads; or
- 6.1.3 any other reason whatsoever beyond the control of the Seller including (but without prejudice to the generality of the foregoing) fluctuations in exchange rates between monetary currencies the action of any government or any other authority or any labour problems
- 6.2 In the Seller's absolute discretion, a Prepayment in respect of the Contract may be required to be paid by the Buyer to the Seller on the terms set out in this Condition. The Prepayment shall be applied as follows:-
- 6.2.1 in the event that the Contract is performed in full by both parties the Prepayment shall be retained by the Seller in reduction of the total price payable by the Buyer under the Contract;
- 6.2.2 in the event that the Buyer is either in default of any of its obligations under the Contract or cancels or suspends the Contract in accordance with Condition 10 the Prepayment shall be set off by the Seller against its proper costs losses or damages arising in connection with the default and/or cancellation or suspension
- 6.3 Unless otherwise stated, the price set out in the Seller's quotation includes the cost of packaging, carriage, and (save as provided in Condition 6.4) insurance. In respect of supplies of Goods in the United States of America, Canada and Japan the price also includes import duties and sales taxes (if any). In respect of supplies of Goods in other countries the price does not include import duties or VAT or sales taxes which will be extra charges based on prevailing rates
- 6.4 Where the Buyer requests a particular means of delivery, the price set out in the Seller's quotation does not include insurance, which is to be arranged at the responsibility of the Buyer.

7 DELIVERY

- 7.1 Delivery of Goods shall be deemed to be effected by the Seller at the following times:-
- 7.1.1 where Goods are collected by or on behalf of the Buyer by its servants or agents, or where Goods are collected in

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- accordance with a means of delivery specifically requested by the Buyer, when the same are collected;
- 7.1.2 where delivery of the Goods is to be the responsibility of the Seller, when they arrive prior to unloading at the Buyer's premises;
- 7.1.3 where Goods are sold FOB or CIF, when they pass the ship's rail or are loaded onto the aircraft
- 7.2 Delivery of Services shall be deemed to be effected by the Seller at the time of completion by the Seller of the Services
- 7.3 Whilst the Seller will make every reasonable effort to complete the Contract by the date or dates therein specified for delivery of Goods or provision of Services such date or dates shall only constitute the times by which the Seller expects to effect such delivery and if no time is agreed delivery will be within a reasonable time but the performance of the Contract by the Seller shall not be the essence of the Contract, the Seller's failure to so deliver by the due date or dates shall not constitute a breach of Contract and the Seller shall not in any circumstances be responsible for any direct or consequential loss or damage of any kind whatsoever resulting therefrom. The Seller may wholly or partly suspend deliveries of Goods or provision of Services and the Buyer shall accept late delivery of such Goods or Services unless the Buyer has cancelled the Contract in accordance with the provisions of Condition 10.3
- 8 QUANTITIES INSTALMENTS AND STORAGE**
- 8.1 Where Goods are delivered or Services are by instalment each instalment shall be deemed to be sold under a separate Contract and the party in default in respect of any instalment shall be liable accordingly, but no default in respect of any one instalment shall effect due performance of the Contract as regards other instalments
- 8.2 The Seller will endeavour to deliver the quantity of Goods ordered and every delivery shall be deemed to comply with the order. If there is a surplus or shortage of Goods which is no more than 10% of the quantity specified in the order the Buyer shall be deemed to have accepted the Goods and shall pay for the actual quantity delivered
- 8.3 If Goods or Services are to be delivered by instalments, the Seller shall be entitled to invoice each instalment as and when delivery is made and payment for all delivered instalments shall be due notwithstanding the non-delivery of other instalments or other default by the Seller. Failure by the Buyer to make payment by the due date for any one instalment for whatever reason shall entitle the Seller to suspend deliveries of Goods or provision of Services under the Contract but without prejudice to any other right the Seller may have under any of the other provisions of these Conditions
- 8.4 Notwithstanding that risk shall have passed to the Buyer pursuant to Condition 15 the Seller may in its absolute discretion arrange for storage of the Goods either at the request of the Buyer or as a result of the failure by the Buyer to take delivery of the Goods under Condition 7. The Seller may insure the goods whilst in storage and the Buyer shall indemnify and keep indemnified the Seller in full against all costs, losses, damages and expenses whatsoever arising in connection with the storage provided for hereunder and such costs, losses, damages and expenses will be added to and form part of the price of the Goods
- 8.5 Unless otherwise agreed between the Buyer and the Seller, the Seller shall be entitled in its absolute discretion and without giving prior notice to the Buyer at the expiration of 3 months to sell or otherwise dispose of Goods kept in storage as provided in Condition 8.4
- 9 TERMS OF PAYMENT**
- 9.1 Unless otherwise agreed the price shall be due and payable at the Seller's offices 30 days after the date of the Seller's invoice
- 9.2 If the Buyer does not pay the whole or any part of the price on the required day then the Buyer shall pay to the Seller on request interest on the amount outstanding from the required day until the actual date of payment at the rate of 2% p.a. over the base rate of Barclays Bank plc from time to time in force which shall accrue on a daily basis
- 9.3 Condition 12 shall apply in the event of any alleged defect or failure in or of the Goods or Services and the Buyer shall not delay or refuse to make payment in any such event
- 9.4 The Buyer shall not be entitled to withhold payment of any amount due to the Seller by reason of any disputed claim by the Buyer in connection with the Contract nor shall the Buyer be entitled to set off against any amount payable under the Contract to the Seller any amount which is not then due and payable by the Seller or for which the Seller disputes liability
- 9.5 All payments payable to the Seller under the Contract shall become due immediately upon termination of the Contract despite any other provision.
- 10 SUSPENSION AND CANCELLATION**
- 10.1 If the Buyer shall commit any breach of the Contract and fail to remedy the same within 7 days of receiving the Seller's request in writing so to do or any distress or execution is levied upon any goods or property of the Buyer or the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being an incorporated company) passes a resolution for winding up (otherwise than for the purpose of amalgamation or reconstruction), or a Court makes an order to that effect, or an encumbrancer takes possession, or an administrative receiver or receiver is appointed, of any of the property or assets of the Buyer, or the Buyer ceases, or threatens to cease, to carry on business or is unable to pay its debts within the meaning of section 123 Insolvency Act, 1986, or the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly, the Seller may:-
- 10.1.1 stop any Goods in transit and suspend any further deliveries;

and/or

- 10.1.2 suspend work on the Contract; and/or
- 10.1.3 determine the Contract forthwith and if the Goods or Services, or any part of them have been delivered but not paid for, the price shall become immediately due and payable notwithstanding any previous agreement to the contrary but without prejudice to the Seller's right to any unpaid price for Goods or Services delivered under the Contract and to damages for loss (both direct and consequential) suffered in consequence of such determination
- 10.2 If the Buyer requires cancellation of the Contract this will only be accepted at the sole discretion of the Seller and unless otherwise agreed in writing only upon condition that any costs, charges or expenses (both direct and consequential) incurred by the Seller up to the date of cancellation and the value of all loss or damage (both direct and consequential) incurred by the Seller by reason of such cancellation will be reimbursed by the Buyer to the Seller forthwith. Acceptance by the Seller of any cancellation by the Buyer will only be binding upon the Seller if it is made in writing
- 10.3 In the event of the Seller other than in any of the circumstances set out in Condition 10.1 being prevented or hindered from completing the Contract either wholly or in part in accordance with the terms thereof for any reason whatsoever beyond its reasonable control which, for the avoidance of doubt and without prejudice to the generality of the foregoing, shall include governmental action, war, riot, civil commotion, fire, flood, epidemic, labour disputes (including labour disputes involving the work force or any part thereof of the Seller or Supplier), restraints or delays affecting shipping or carriers, licensing, exporting or importing restrictions, currency restrictions and Acts of God then further performance of the Contract shall be suspended for the period during which the Seller is so prevented provided that in the event of the Contract being suspended for a continuous period of more than 3 months then either party may give the other notice in writing to terminate the Contract forthwith and in such circumstances the Buyer shall pay for all Goods or Services supplied to the date of such termination such payment to be made on or before the last day following the month during which termination was effected. The Seller shall be under no liability whatsoever to the Buyer for any direct or consequential loss or damage suffered by the Buyer as a result of the Seller's inability to perform its obligations under the Contract in these circumstances
- 10.4 The Seller's rights contained in Condition 17 (but not the Buyer's rights) shall continue beyond the discharge of the parties' primary obligations under the Contract consequent upon its termination
- 10.5 The termination of the Contract for whatever reason will be without prejudice to the rights and duties of either party accrued prior to termination
- 11 INSPECTION AND CLAIMS FOR DEFECTS**
- 11.1 The Goods are of a highly specialised nature and must be treated with the utmost care. It is essential that the Buyer checks that they correspond in all respects with the Buyer's requirements. Any discrepancies should be notified to the Seller immediately. The Buyer undertakes to ensure that all Goods are unpacked and handled only by persons qualified to deal with such specialised products, to safeguard against injury to the Goods or to the Buyer's personnel
- 11.2 The Buyer shall inspect the Goods and carry out tests to ensure the Goods conform with the description of the Goods or Services in the Buyer's orders within 7 days of Delivery and whether or not the Buyer carries out such obligation to inspect and test no claims for non-delivery, shortages in quantity of units delivered, defective Goods or Services, non-conformity to description or partial loss or damage to Goods will be accepted by the Seller unless:-
- 11.2.1 they are notified in writing by the Buyer to the Seller within 10 days after the Date of Delivery (in the case of partial loss, damage, non-conforming or defective Goods or Services) or 14 days after the date of the invoice (in the case of non-delivery);
- 11.2.2 the Goods in respect of which a claim is made together with all the relevant packing are preserved intact as received for a period of 35 days from notification of any such claim and the Buyer permits the Seller or its servants or agents full and free right of access to inspect the Goods and investigate the claim; and
- 11.2.3 if the Buyer fails to give the appropriate notice as specified in Condition 11.2.1, the Buyer's claim will be deemed to have been waived and will be absolutely barred
- 11.3 It is in all cases the responsibility of the Buyer to ensure by testing or otherwise that the Goods are fit and suitable for the purposes for which the Buyer requires them in the conditions in which they will be used. The Buyer acknowledges that the Seller shall be under no liability of any description to the Buyer if the Goods prove to be unsuitable for whatever reason for application or use notwithstanding that the Seller may, at the request of the Buyer, have given in good faith technical or other advice in relation to the proposed application or use of the Goods and the Buyer shall indemnify and keep indemnified the Seller in full against any and all liability of any kind arising out of or connected with the application or use of the Goods
- 11.4 Section 3 Sale and Supply of Goods Act 1994 shall not apply
- 11.5 The Seller will not accept the return of Goods in any circumstances unless it has first issued a Goods return number and such number is quoted with the returned Goods
- 12 WARRANTY**
- 12.1 In substitution for all and any other rights which the Buyer might or would have had but for these Conditions and subject to Condition 11,

Conditions of Sale

the Seller shall make good by replacement any failure in the Goods or Services which results from defects in the Seller's materials or workmanship and which appear not later than 2 months after the Date of Delivery and shall replace any Goods or Services which do not conform with the description in the Buyer's order

- 12.2 Notwithstanding the provisions of Condition 12.1, in the case of a claim falling within Condition 12.1, the Seller reserves the right at its sole discretion to credit the Buyer in full the price paid by the Buyer to the Seller
- 12.3 The Seller's liability under this Condition shall automatically cease if:
- 12.3.1 the Buyer has not paid for all Goods or Services supplied under any Contract by the due date or is otherwise in breach of this or any other Contract made with the Seller; or
- 12.3.2 the Seller or its servants or agents are denied full and free right of access to the allegedly defective Goods; or
- 12.3.3 the Buyer has not properly maintained the Goods or has not complied with any Recommendations for Use; or
- 12.3.4 the defect or failure is caused by a breach by the Buyer of its undertakings and warranties contained in Condition 17; or
- 12.3.5 the Buyer has failed to notify the Seller in writing of any defect or suspected defect within 14 days of the same coming to the knowledge of the Buyer
- 12.4 The warranty set out in Condition 12.1 shall be in lieu of any warranties conditions or undertakings whether express or implied by statute, common law or otherwise howsoever which warranties, conditions and undertakings are hereby expressly excluded, except that such exclusions will not apply to any implied condition that the Seller has or will have the right to sell the Goods when the property is to pass
- 12.5 Nothing in these Conditions excludes or limits the liability of the Seller for death or personal injury caused by the Seller's negligence or fraudulent misrepresentation
- 12.6 SUBJECT TO CONDITIONS 12.4 AND 12.5
- 12.6.1 the seller's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation or otherwise, arising in connection with the performance or contemplated performance of the contract shall be limited to the price paid for the goods or services under the contract; and
- 12.6.2 the seller shall not be liable to the buyer for any indirect or consequential loss or damage (whether for loss of profit, loss of business, depletion of goodwill or otherwise), costs, expenses or other claims for consequential compensation whatsoever (however caused) which arise out of or in connection with the contract

13 CONSUMER SALES

- 13.1 Where the Goods are sold under a consumer sale (as defined by the Sale of Goods Act 1979) the statutory rights of the Buyer are not affected by these conditions

14 TITLE TO GOODS

- 14.1 Full legal and beneficial ownership of the Goods shall be retained by the Seller notwithstanding that the risk in the same shall pass to the Buyer at the time of delivery until the Seller has received payment in full in respect of
- 14.1.1 The Goods; and
- 14.1.2 All other sums which become due and owing by the Buyer to the Seller on any account whatsoever
- 14.2 Until ownership of the Goods has passed to the Buyer the Buyer shall hold the Goods in a fiduciary capacity and as bailee of the Seller and shall at all times take proper care of the same and will not obliterate or obscure any identifying mark or their packaging and will keep the Goods separate from any other goods and in such manner that they may be clearly identified as belonging to the Seller and the Buyer hereby grants to the Seller the right to enter on the Buyer's premises at any time during the continuation of the Contract to check that the Buyer is complying with the obligation contained in this Condition. The Buyer will return the Goods to the Seller if it receives a request whether verbally or in Writing so to do prior to payment in full as aforesaid having been made and the Seller will then repay any part of the purchase price it has already received in respect of the Goods less a reasonable amount in respect of its costs and expenses in connection with the Contract
- 14.3 For the purposes of Condition 14.1, the expression "the Buyer" includes any subsidiary or holding company or associate of the Buyer (as such terms are defined in the Companies Act 1985 (as amended))
- 14.4 The Seller will have the right to maintain an action against the Buyer for the price of the Goods notwithstanding that property in the Goods has not been passed

15 RISK AND INSURANCE

- 15.1 The risk in the Goods shall pass to the Buyer at the time of delivery as provided for in Condition 7
- 15.2 Notwithstanding the reservation of title contained in Condition 14, the Buyer shall insure the Goods and/or any products made wholly or partly therefrom for the full amount of the price payable under the Contract with an insurance office of repute from the time of delivery of the Goods until the date title in the Goods passes to the Buyer pursuant to Condition 14.1

16 EXPORT TERMS

- 16.1 In these Conditions "Incoterms" means the international rules for the interpretation of trade terms of the International Chamber of Commerce

as in force at the date when the Contract is made. Unless the context otherwise requires, any term or expression which is defined in or given a particular meaning by the provisions of Incoterms has the same meaning in the Contract

- 16.2 Where the Goods are supplied for export from the United Kingdom then unless otherwise agreed in writing between the Buyer and the Seller
- 16.2.1 the provisions of Incoterms shall (subject to any special terms agreed in writing between the Buyer and the Seller) apply but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.
- 16.2.2 the Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and (save in respect of the United States of America, Canada and Japan) for the payment of any duties and taxes thereon unless payment for these is included in the Contract
- 16.2.3 the Buyer shall be deemed to have satisfied itself that such Goods comply with the safety regulations of any country or state in which the Goods are to be used outside the United Kingdom and the Buyer shall indemnify and keep indemnified the Seller in full for any loss or damage whatsoever which the Seller may incur if such Goods do not comply with such safety regulations
- 16.3 The Goods shall not be used in any country other than that for which the Seller was aware they were originally ordered without the Seller's consent in writing
- 16.4 The Buyer undertakes not to offer the Goods for resale in any country notified by the Seller at or before the time the Buyer's order is placed, or to sell the Goods to any person if the Buyer knows or has reason to believe that person intends to resell the Goods in any such country

17 BUYER'S WARRANTIES

- 17.1 The Buyer warrants to the Seller that:
- 17.1.1 the Buyer will install, operate or otherwise use or store the Goods strictly in accordance with the Recommendations for Use and with all relevant or applicable statutory or other regulations governing the installation, operation, use or storage of the Goods; and
- 17.1.2 any collection vehicle, container, ship or other means of transport provided by the Buyer or any agent of the Buyer will comply with all relevant legislation and regulations relating to health and safety requirements; and
- 17.1.3 the storage and transport facilities and all parts thereof and all equipment used in connection therewith is suitable for storage (both short term and long term) and transport of the Goods and complies with any statute, regulation, bye law or other rule having the force of law and relating to the storage of goods of the nature of the Goods; and
- 17.1.4 the Buyer will ensure that the Goods are stored in conditions appropriate to goods of that nature and will comply with any recommendations as to the storage of Goods notified to it by the Seller from time to time; and
- 17.2 The Buyer shall indemnify and keep indemnified the Seller in full against any claim, loss or damage (including, without limitation, damage to the reputation of the Seller) arising directly or indirectly from any breach of the warranty contained in Condition 17.1

18 SEVERANCE

- 18.1 If at any time any one or more of the provisions or part thereof of these Conditions becomes or is invalid, illegal or unenforceable in any respect under any law or is held by a court to be invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions hereof and the remainder of such provision shall not in any way be affected or impaired thereby

19 JURISDICTION

- 19.1 These Conditions and each and every Contract made pursuant to them shall be governed by and construed in all respects in accordance with the laws of England and the Seller and the Buyer hereby agree to submit to the non-exclusive jurisdiction of the English Courts

20 NOTICES

- 20.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving notice
- 20.2 Any notice given pursuant to clause 20.1 shall be deemed to have been served:
- 20.2.1 if delivered by hand, on the first Business Day following delivery;
- 20.2.2 if sent by post, on the third Business Day after posting if the address of the recipient is in the country of despatch, otherwise on the seventh Business Day after posting;
- 20.2.3 if sent by facsimile transmission, on the first Business Day following successful transmission
- 20.3 In proving service it shall be sufficient proof in the case of a notice sent by post, that the envelope containing the same was properly stamped, addressed and placed in the post and, in the case of facsimile transmission, that it was properly addressed and successfully transmitted
- 20.4 In this Condition 20, "Business Day" shall mean any day other than Saturday, Sunday or any other day which is a public holiday in the place at which the notice is left or to which such notice is despatched

21 WAIVER

Conditions of Sale

21.1 No waiver by the Seller of any breach of any provision of the Contract by the Buyer shall be considered as a waiver of any subsequent breach

of the same or any other provision and the Seller shall not be prejudiced by any forbearance or indulgence granted by it to the Buyer

Silver

Ag

Silver was known to ancient civilizations.

Silver is a soft, malleable metal with a characteristic sheen. It has the highest thermal and electrical conductivities of all metals. It is generally found uncombined, or in the sulfide or arsenide ores from which it can be recovered as a cyanide complex which is subsequently reduced to the metal, in aqueous solution, by the use of zinc. The pure metal is stable to water and oxygen but is attacked in air by sulfur bearing compounds to form the characteristic black layer of silver sulfide. It is soluble in sulfuric and nitric acids.

Some silver salts are sensitive to light (e.g. AgI, AgCl and AgBr) and are of fundamental importance to photography. Other applications and industries in which silver is used include the manufacture of jewellery (both as the pure metal and as a constituent of various alloys), the electrical industry (e.g. in the manufacture of contacts) and for the silvering of glass.

Atomic Properties

Atomic number	47
Atomic radius - Goldschmidt	0.144 nm
Atomic weight	107.8682 amu
Crystal structure	Face centred cubic
Electronic structure	Kr 4d ¹⁰ 5s ¹
Photo-electric work function	4.7 eV
Thermal neutron absorption cross-section	63.8 Barns
Valences shown	1, 2

Natural isotope distribution

Mass No.	%
107	51.83
109	48.17

Ionization potential

No.	eV
1	7.58
2	21.5
3	34.8

Physical Properties

Boiling point	2212 C
Density @20C	10.5 g cm ⁻³
Melting point	961.9 C

Electrical Properties

Electrical resistivity @20C	1.63 μOhmcm
Temperature coefficient @0-100C	0.0041 K ⁻¹
Thermal emf against Pt (cold 0C - hot 100C)	+0.74 mV

Thermal Properties

Coefficient of thermal expansion @0-100C	19.1 x10 ⁻⁶ K ⁻¹
Latent heat of evaporation	2390 J g ⁻¹
Latent heat of fusion	103 J g ⁻¹
Specific heat @25C	237 J K ⁻¹ kg ⁻¹
Thermal conductivity @0-100C	429 W m ⁻¹ K ⁻¹

Mechanical Properties

Material condition	Soft	Hard	Polycrystalline
Bulk modulus			103.6 GPa
Hardness - Vickers	25	95	
Izod toughness	5 J m ⁻¹		
Poisson's ratio			0.367
Tensile modulus			82.7 GPa
Tensile strength	172	330	MPa



Microfoil

CONTRACT COATING of customers' own components or assemblies is available to special order.

AG004500

Thickness	0.1μm	Area density	110μg.cm ⁻²
Purity	99.95 + %	Support	Permanent Mylar® 3.5μm

Web Code	Disk diam.	1 disk	2disks	5disks	10disks
502-728-592	10 mm	USD 411.00	USD 554.00	USD 983.00	USD 1555.00
133-148-448	25 mm	USD 602.00	USD 840.00	USD 1555.00	USD 2509.00

Typical Analysis : Starting Material : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.
 This item is normally made to order for delivery within 4-5 weeks.

AG004600

Thickness	0.25μm	Area density	262.3μg.cm ⁻²
Purity	99.95 + %	Support	Permanent Mylar® 3.5μm

Web Code	Disk diam.	1 disk	2disks	5disks	10disks
499-815-288	10 mm	USD 454.00	USD 618.00	USD 1112.00	USD 1770.00
613-831-689	25 mm	USD 673.00	USD 947.00	USD 1770.00	USD 2867.00

Typical Analysis : Starting Material : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.
 This item is normally made to order for delivery within 4-5 weeks.

AG004700

Thickness	0.5μm	Area density	522.6μg.cm ⁻²
Purity	99.95 + %	Support	Permanent Mylar® 3.5μm

Web Code	Disk diam.	1 disk	2disks	5disks	10disks
010-399-808	10 mm	USD 483.00	USD 661.00	USD 1198.00	USD 1913.00
497-143-426	25 mm	USD 721.00	USD 1019.00	USD 1913.00	USD 3105.00

Typical Analysis : Starting Material : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.
 This item is normally made to order for delivery within 4-5 weeks.

AG004850

Thickness	1.0μm	Area density	1098μg.cm ⁻²
Purity	99.95%	Support	Permanent Mylar® 3.5μm

Web Code	Disk diam.	1 disk	2disks	5disks	10disks
071-947-970	10 mm	USD 554.00	USD 769.00	USD 1412.00	USD 2271.00
186-307-277	25 mm	USD 840.00	USD 1198.00	USD 2271.00	USD 3701.00

Typical Analysis : Starting Material : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.
 This item is normally made to order for delivery within 4-5 weeks.

Silver

Ag



Foil

AG000090 Thickness **0.001mm** Purity..... **99.97%**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
802-171-091	25 x 25 mm	USD 514.00	USD 667.00	USD 983.00
864-405-528	50 x 50 mm	USD 851.00	USD 1144.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000100 Thickness **0.002mm** Purity..... **99.97%**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
600-993-073	25 x 25 mm	USD 495.00	USD 640.00	USD 940.00
503-665-161	50 x 50 mm	USD 813.00	USD 1089.00	
748-227-888	100 x 100 mm	USD 1951.00		

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000110 Thickness **0.0025mm** Purity..... **99.97%**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
063-757-647	25 x 25 mm	USD 475.00	USD 612.00	USD 896.00
819-778-884	50 x 50 mm	USD 773.00	USD 1037.00	
456-816-661	100 x 100 mm	USD 1872.00		

Web Code	Diameter	Quantity		
		10 disks	20 disks	50 disks
810-663-268	4 mm	USD 543.00	USD 662.00	USD 946.00
332-905-799	6 mm	USD 628.00	USD 782.00	USD 1141.00
613-216-216	8 mm	USD 713.00	USD 904.00	USD 1338.00
652-025-998	10 mm	USD 799.00	USD 1028.00	USD 1543.00
503-247-453	15 mm	USD 1010.00	USD 1327.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000215 Thickness **0.003mm** Purity..... **99.9%**

Web Code	Size	Quantity					
		1pc	2pcs	5pcs	10pcs	20pcs	
417-513-013	25 x 25 mm	USD 346.00	USD 406.00	USD 531.00	USD 680.00	USD 907.00	
207-078-044	50 x 50 mm	USD 479.00	USD 594.00	USD 828.00	USD 1101.00	USD 1502.00	
860-002-847	100 x 100 mm	USD 745.00	USD 970.00	USD 1423.00	USD 2050.00		
240-315-838	150 x 150 mm	USD 1011.00	USD 1346.00	USD 2247.00			

Web Code	Length	Quantity
		1 Reel
550-973-987	0.2 m	USD 1238.00
871-743-228	0.5 m	USD 1774.00

Web Code	Diameter	Quantity		
		10 disks	20 disks	50 disks
987-773-450	4 mm	USD 482.00	USD 579.00	USD 803.00
471-677-462	6 mm	USD 523.00	USD 636.00	USD 893.00
959-685-681	8 mm	USD 563.00	USD 693.00	USD 984.00
960-711-041	10 mm	USD 604.00	USD 750.00	USD 1074.00
088-875-840	15 mm	USD 705.00	USD 893.00	USD 1300.00
109-484-843	25 mm	USD 907.00	USD 1179.00	USD 1753.00
685-612-208	50 mm	USD 1412.00	USD 1895.00	

Typical Analysis : Al 1, Au 20, Bi 1, Ca 3, Cd 20, Cr <1, Cu 500, Fe 7, Mg 1, Mn <1, Na 1, Ni 10, Pb 50, Si <1, Sn 3.

AG000120 Thickness **0.004mm** Purity..... **99.97%**

Web Code	Size	Quantity			
		1pc	2pcs	5pcs	10pcs
147-837-113	25 x 25 mm	USD 438.00	USD 559.00	USD 813.00	USD 1216.00
557-363-762	50 x 50 mm	USD 699.00	USD 962.00	USD 2159.00	
987-685-476	100 x 100 mm	USD 1721.00	USD 3278.00		
263-977-826	150 x 150 mm	USD 3651.00			

Web Code	Diameter	Quantity		
		10 disks	20 disks	50 disks
639-281-543	4 mm	USD 522.00	USD 632.00	USD 899.00
910-194-262	6 mm	USD 597.00	USD 738.00	USD 1070.00
774-286-045	8 mm	USD 671.00	USD 845.00	USD 1243.00
785-757-325	10 mm	USD 747.00	USD 953.00	USD 1456.00
219-666-000	15 mm	USD 931.00	USD 1215.00	USD 2531.00
458-262-183	25 mm	USD 1457.00	USD 2586.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

Metal – Silver

Silver

Ag



Foil

AG000130 Thickness 0.005mm

Purity..... 99.97%

Sizes LT
Web Code

119-458-752
 907-520-034
 557-261-958
 927-717-812

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 420.00	USD 534.00	USD 773.00	USD 1169.00
50 x 50 mm	USD 663.00	USD 924.00	USD 2065.00	
100 x 100 mm	USD 1646.00	USD 3128.00		
150 x 150 mm	USD 3482.00			

Disks

Web Code

930-460-689
 307-587-446
 448-433-402
 054-183-126
 772-889-895
 611-234-961

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 512.00	USD 618.00	USD 877.00
6 mm	USD 581.00	USD 716.00	USD 1035.00
8 mm	USD 651.00	USD 816.00	USD 1197.00
10 mm	USD 721.00	USD 917.00	USD 1413.00
15 mm	USD 893.00	USD 1171.00	USD 2435.00
25 mm	USD 1404.00		

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000807

Typical Analysis :

Al 4, Au 8, Bi 3,
 Ca 40, Cd 2, Cr 20,
 Cu 20, Fe 60, Mg 3,
 Mn 5, Na 10, Ni 5,
 Pb 40, Si 20, Sn 1.

AG000140 Thickness 0.006mm

Purity..... 99.97%

Sizes LT
Web Code

734-933-321
 059-853-009
 166-765-567
 294-929-058

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 402.00	USD 509.00	USD 733.00	USD 1122.00
50 x 50 mm	USD 628.00	USD 887.00	USD 1971.00	
100 x 100 mm	USD 1570.00	USD 2977.00		
150 x 150 mm	USD 3312.00			

Disks

Web Code

641-738-431
 217-307-116
 163-398-004
 424-750-911
 093-874-013
 734-260-793

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 502.00	USD 604.00	USD 855.00
6 mm	USD 567.00	USD 695.00	USD 1002.00
8 mm	USD 631.00	USD 788.00	USD 1152.00
10 mm	USD 696.00	USD 881.00	USD 1369.00
15 mm	USD 856.00	USD 1132.00	USD 2340.00
25 mm	USD 1351.00	USD 2375.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000150 Thickness 0.007mm

Purity..... 99.97%

Sizes LT
Web Code

326-746-972
 501-955-169
 413-606-998
 160-919-067

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 400.00	USD 506.00	USD 729.00	USD 1106.00
50 x 50 mm	USD 623.00	USD 873.00	USD 1938.00	
100 x 100 mm	USD 1544.00	USD 2924.00		
150 x 150 mm	USD 3252.00			

Disks

Web Code

097-423-503
 177-942-772
 242-841-457
 355-181-693
 397-706-464
 713-307-674

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 501.00	USD 602.00	USD 852.00
6 mm	USD 565.00	USD 693.00	USD 997.00
8 mm	USD 629.00	USD 784.00	USD 1146.00
10 mm	USD 693.00	USD 877.00	USD 1354.00
15 mm	USD 851.00	USD 1119.00	USD 2306.00
25 mm	USD 1333.00	USD 2338.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

Metal – Silver

Silver

Ag



Foil

AG000218 Thickness 0.008mm

Purity..... 99.95+%

Sizes LT
Web Code

034-965-855
 380-461-463
 541-573-509

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 307.00	USD 351.00	USD 442.00	USD 550.00	USD 712.00
50 x 50 mm	USD 406.00	USD 492.00	USD 665.00	USD 865.00	USD 1158.00
100 x 100 mm	USD 605.00	USD 774.00	USD 1110.00	USD 1495.00	

Coil

Web Code
 014-097-239
 168-664-894
 063-151-280

Length	Quantity	
	1 Reel	
0.2 m	USD 820.00	
0.5 m	USD 1148.00	
1 m	USD 1518.00	

Disks

Web Code
 425-127-340
 957-684-097
 357-240-566
 256-007-773
 724-697-271
 527-673-445
 238-369-906

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 433.00	USD 496.00	USD 641.00
6 mm	USD 463.00	USD 538.00	USD 709.00
8 mm	USD 493.00	USD 581.00	USD 776.00
10 mm	USD 524.00	USD 624.00	USD 844.00
15 mm	USD 599.00	USD 731.00	USD 1014.00
25 mm	USD 751.00	USD 946.00	USD 1353.00
50 mm	USD 1130.00	USD 1483.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000160 Thickness 0.008mm

Purity..... 99.97%

NLT Sizes
Web Code

451-684-310
 411-587-065
 827-533-759
 835-332-156

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 385.00	USD 485.00	USD 696.00	USD 1078.00
50 x 50 mm	USD 594.00	USD 851.00	USD 1883.00	
100 x 100 mm	USD 1499.00	USD 2835.00		
150 x 150 mm	USD 3153.00			

Sizes LT
Web Code

157-082-361

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 424.00	USD 533.00	USD 765.00	USD 1186.00

Disks

Web Code
 183-311-414
 913-930-057
 241-258-573
 157-324-021
 665-507-105
 188-389-748

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 493.00	USD 590.00	USD 833.00
6 mm	USD 552.00	USD 675.00	USD 970.00
8 mm	USD 612.00	USD 761.00	USD 1109.00
10 mm	USD 673.00	USD 848.00	USD 1329.00
15 mm	USD 820.00	USD 1096.00	USD 2249.00
25 mm	USD 1302.00	USD 2275.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000170 Thickness 0.009mm

Purity..... 99.97%

NLT Sizes
Web Code

087-305-039
 964-335-883
 718-327-313
 996-173-163

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 372.00	USD 466.00	USD 665.00	USD 1056.00
50 x 50 mm	USD 567.00	USD 833.00	USD 1838.00	
100 x 100 mm	USD 1464.00	USD 2764.00		
150 x 150 mm	USD 3073.00			

Sizes LT
Web Code

966-878-374

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 409.00	USD 512.00	USD 732.00	USD 1161.00

Disks

Web Code
 961-738-827
 217-353-677
 169-209-416
 151-182-531
 897-814-295
 226-785-777

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 485.00	USD 580.00	USD 816.00
6 mm	USD 541.00	USD 659.00	USD 944.00
8 mm	USD 597.00	USD 739.00	USD 1074.00
10 mm	USD 654.00	USD 820.00	USD 1308.00
15 mm	USD 791.00	USD 1078.00	USD 2205.00
25 mm	USD 1277.00	USD 2226.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000221 Thickness 0.01mm
 Purity..... 99.95+%

Coil width 1mm
 Temper..... As Drawn

Coil

Web Code
 056-967-589
 481-317-937
 629-028-744
 366-546-334
 661-062-343

Length	Quantity	
	1 Reel	
0.1 m	USD 325.00	
0.5 m	USD 409.00	
1 m	USD 472.00	
2 m	USD 562.00	
5 m	USD 741.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Foil

AG000220

Thickness **0.01mm**

Purity..... **99.95+%**

Sizes LT

Web Code

718-790-244
 124-735-358
 242-160-495
 607-362-153

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 305.00	USD 348.00	USD 438.00	USD 544.00	USD 703.00
50 x 50 mm	USD 402.00	USD 486.00	USD 656.00	USD 853.00	USD 1140.00
100 x 100 mm	USD 597.00	USD 762.00	USD 1093.00	USD 1470.00	
150 x 150 mm	USD 793.00	USD 1038.00	USD 1529.00		

Coil

Web Code

967-224-995
 109-319-479
 516-107-772

Length	Quantity	
	1 Reel	
0.2 m	USD 933.00	
0.5 m	USD 1327.00	
1 m	USD 1770.00	

Disks

Web Code

640-800-759
 100-094-601
 511-833-017
 979-126-379
 390-792-002
 849-010-684
 126-325-541

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 432.00	USD 494.00	USD 638.00
6 mm	USD 461.00	USD 536.00	USD 704.00
8 mm	USD 491.00	USD 578.00	USD 771.00
10 mm	USD 521.00	USD 620.00	USD 838.00
15 mm	USD 595.00	USD 725.00	USD 1004.00
25 mm	USD 743.00	USD 935.00	USD 1336.00
50 mm	USD 1115.00	USD 1461.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000241

Thickness **0.0125mm**

Coil width **9mm**

Coil

Web Code

803-474-066
 037-798-485
 114-814-219
 561-073-463
 582-255-187

Length	Quantity	
	1 Reel	
0.5 m	USD 295.00	
1 m	USD 360.00	
2 m	USD 452.00	
5 m	USD 637.00	
10 m	USD 846.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000240

Thickness **0.0125mm**

Purity..... **99.95+%**

NLT Sizes

Web Code

621-115-391
 497-760-149
 888-011-625

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 295.00	USD 339.00	USD 439.00	USD 574.00	USD 803.00
50 x 50 mm	USD 369.00	USD 444.00	USD 606.00	USD 809.00	USD 1135.00
100 x 100 mm	USD 518.00	USD 655.00	USD 939.00	USD 1280.00	USD 1801.00

Sizes LT

Web Code

550-963-319
 829-722-773

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 324.00	USD 373.00	USD 483.00	USD 631.00	USD 883.00
50 x 50 mm	USD 462.00	USD 555.00	USD 757.00	USD 1012.00	USD 1419.00

Coil

Web Code

953-526-994
 373-796-506
 724-567-238

Length	Quantity	
	1 Reel	
0.5 m	USD 926.00	
1 m	USD 1203.00	
2 m	USD 1593.00	

Disks

Web Code

043-120-229
 390-032-416
 754-060-469
 257-552-170
 194-014-541
 251-815-792
 476-970-709

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 541.00	USD 718.00	USD 1070.00
6 mm	USD 564.00	USD 750.00	USD 1121.00
8 mm	USD 587.00	USD 782.00	USD 1172.00
10 mm	USD 609.00	USD 814.00	USD 1222.00
15 mm	USD 666.00	USD 894.00	USD 1349.00
25 mm	USD 779.00	USD 1054.00	USD 1602.00
50 mm	USD 1063.00	USD 1456.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000809

Typical Analysis :
 Cu 70, Fe 5, Na 1,
 Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Foil

AG000180

Thickness **0.015mm**

Purity **99.97%**

NLT Sizes

Web Code

068-112-645
 893-386-078
 584-187-924

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
50 x 50 mm	USD 418.00	USD 661.00	USD 1406.00	
100 x 100 mm	USD 1118.00	USD 2073.00		
150 x 150 mm	USD 2296.00			

Sizes LT

Web Code

070-215-615
 750-948-709
 653-969-204

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 297.00	USD 360.00	USD 524.00	USD 840.00
50 x 50 mm	USD 459.00	USD 727.00	USD 1547.00	
100 x 100 mm	USD 1398.00	USD 2592.00		

Disks

Web Code

154-485-293
 310-650-942
 831-363-484
 920-432-445
 054-057-237
 757-154-216

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 444.00	USD 520.00	USD 722.00
6 mm	USD 478.00	USD 570.00	USD 802.00
8 mm	USD 513.00	USD 620.00	USD 915.00
10 mm	USD 548.00	USD 670.00	USD 1110.00
15 mm	USD 634.00	USD 903.00	USD 1765.00
25 mm	USD 1035.00	USD 1742.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

AG000250

Thickness **0.015mm**

Purity **99.95+%**

NLT Sizes

Web Code

127-639-319
 510-731-413
 763-508-543
 726-794-836

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 302.00	USD 349.00	USD 455.00	USD 596.00	USD 834.00
50 x 50 mm	USD 384.00	USD 464.00	USD 638.00	USD 854.00	USD 1199.00
100 x 100 mm	USD 547.00	USD 695.00	USD 1002.00	USD 1370.00	USD 1985.00
200 x 200 mm	USD 873.00	USD 1156.00	USD 1788.00		

Sizes LT

Web Code

839-442-997
 393-926-797

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 332.00	USD 384.00	USD 501.00	USD 656.00	USD 918.00
50 x 50 mm	USD 479.00	USD 580.00	USD 797.00	USD 1068.00	USD 1499.00

Coil

Web Code

682-260-264
 808-978-440
 326-575-424

Length	Quantity	
	1 Reel	
0.2 m	USD 929.00	
0.5 m	USD 1317.00	
1 m	USD 1852.00	

Disks

Web Code

465-583-563
 716-027-920
 780-559-044
 527-540-928
 949-719-321
 055-751-580
 890-724-771

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 546.00	USD 724.00	USD 1080.00
6 mm	USD 571.00	USD 759.00	USD 1135.00
8 mm	USD 595.00	USD 794.00	USD 1191.00
10 mm	USD 620.00	USD 829.00	USD 1247.00
15 mm	USD 682.00	USD 917.00	USD 1385.00
25 mm	USD 806.00	USD 1092.00	USD 1663.00
50 mm	USD 1117.00	USD 1532.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000190

Thickness **0.02mm**

Purity **99.97%**

NLT Sizes

Web Code

606-981-223
 590-086-971

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	USD 1092.00	USD 2021.00		
150 x 150 mm	USD 2236.00			

Sizes LT

Web Code

320-183-743
 891-104-700
 378-717-924

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 295.00	USD 358.00	USD 515.00	USD 823.00
50 x 50 mm	USD 414.00	USD 648.00	USD 1374.00	
100 x 100 mm	USD 1201.00	USD 2223.00		

Disks

Web Code

309-355-508
 669-447-403
 680-932-646
 116-584-830
 573-110-306
 638-799-133

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 443.00	USD 519.00	USD 720.00
6 mm	USD 477.00	USD 567.00	USD 798.00
8 mm	USD 511.00	USD 617.00	USD 905.00
10 mm	USD 546.00	USD 667.00	USD 1095.00
15 mm	USD 630.00	USD 889.00	USD 1732.00
25 mm	USD 1017.00	USD 1705.00	

Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.

Metal - Silver

Silver

Ag



Foil

AG000802

Typical Analysis :
 Al 4, Au 8, Bi 3,
 Ca 40, Cd 2, Cr 20,
 Cu 20, Fe 60, Mg 3,
 Mn 5, Na 10, Ni 5,
 Pb 40, Si 20, Sn 1.

AG000260

Thickness **0.025mm**
 Temper **As Rolled**

Purity **99.95 + %**

NLT Sizes

Web Code

759-561-708
 667-264-012
 969-969-862
 848-083-788
 648-362-876

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 202.00	USD 221.00	USD 262.00	USD 305.00	USD 372.00
50 x 50 mm	USD 237.00	USD 270.00	USD 339.00	USD 414.00	USD 526.00
100 x 100 mm	USD 306.00	USD 367.00	USD 493.00	USD 631.00	USD 834.00
150 x 150 mm	USD 374.00	USD 464.00	USD 647.00	USD 849.00	USD 1152.00
300 x 300 mm	USD 581.00	USD 756.00	USD 1119.00		

Sizes LT

Web Code

704-557-205
 339-807-339
 145-023-053
 457-107-936
 163-644-597

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 212.00	USD 232.00	USD 275.00	USD 320.00	USD 391.00
50 x 50 mm	USD 249.00	USD 283.00	USD 356.00	USD 435.00	USD 552.00
100 x 100 mm	USD 336.00	USD 404.00	USD 542.00	USD 695.00	USD 917.00
150 x 150 mm	USD 412.00	USD 511.00	USD 712.00	USD 934.00	USD 1267.00
300 x 300 mm	USD 697.00	USD 907.00	USD 1343.00		

Coil

Web Code

400-176-204
 022-029-833
 753-734-219

Length	Quantity
	1 Reel
0.5 m	USD 525.00
1 m	USD 653.00
2 m	USD 834.00

Disks

Web Code

216-782-512
 097-818-038
 227-250-649
 406-333-546
 791-689-668
 961-207-384
 150-924-344

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 346.00	USD 381.00	USD 478.00
6 mm	USD 357.00	USD 396.00	USD 501.00
8 mm	USD 367.00	USD 411.00	USD 524.00
10 mm	USD 378.00	USD 426.00	USD 548.00
15 mm	USD 404.00	USD 463.00	USD 607.00
25 mm	USD 456.00	USD 537.00	USD 724.00
50 mm	USD 588.00	USD 723.00	USD 1020.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000266

Thickness **0.025mm**
 Temper **Annealed**

Purity **99.95 + %**

NLT Sizes

Web Code

242-087-475
 998-816-452
 700-083-083

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 202.00	USD 221.00	USD 262.00	USD 305.00	USD 372.00
50 x 50 mm	USD 237.00	USD 270.00	USD 339.00	USD 414.00	
100 x 100 mm	USD 306.00	USD 367.00	USD 493.00		

Sizes LT

Web Code

458-563-901
 618-683-686
 980-062-949

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 212.00	USD 232.00	USD 275.00	USD 320.00	USD 391.00
50 x 50 mm	USD 249.00	USD 283.00	USD 356.00	USD 435.00	
100 x 100 mm	USD 336.00	USD 404.00	USD 542.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000265

Thickness **0.025mm**
 Temper **Annealed**

Purity **99.95 + %**

NLT Sizes

Web Code

866-814-250
 692-771-915
 186-939-840
 766-047-448
 002-341-115

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 202.00	USD 221.00	USD 262.00	USD 305.00	USD 372.00
50 x 50 mm	USD 237.00	USD 270.00	USD 339.00	USD 414.00	USD 526.00
100 x 100 mm	USD 306.00	USD 367.00	USD 493.00	USD 631.00	USD 834.00
125 x 150 mm	USD 356.00	USD 439.00	USD 607.00	USD 792.00	
250 x 300 mm	USD 545.00	USD 705.00	USD 1028.00		

Sizes LT

Web Code

806-139-304
 634-123-107
 457-949-193
 076-163-819
 028-472-035

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 212.00	USD 232.00	USD 275.00	USD 320.00	USD 391.00
50 x 50 mm	USD 249.00	USD 283.00	USD 356.00	USD 435.00	USD 552.00
100 x 100 mm	USD 336.00	USD 404.00	USD 542.00	USD 695.00	USD 917.00
125 x 150 mm	USD 410.00	USD 505.00	USD 698.00	USD 911.00	
250 x 300 mm	USD 654.00	USD 846.00	USD 1233.00		

Coil

Web Code

647-142-151
 124-841-556
 129-459-119

Length	Quantity
	1 Reel
0.5 m	USD 703.00
1 m	USD 905.00
2 m	USD 1256.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal - Silver

Silver

Ag



Foil

AG000270

Thickness **0.025mm**
 Temper **As Rolled**

Purity **99.99%**

Size

Web Code

865-538-387
 192-296-874
 037-104-945
 291-440-223
 374-106-017

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 293.00	USD 349.00	USD 465.00	USD 592.00	USD 778.00
50 x 50 mm	USD 418.00	USD 526.00	USD 745.00	USD 988.00	
100 x 100 mm	USD 669.00	USD 881.00	USD 1561.00		
125 x 150 mm	USD 854.00	USD 1204.00			
250 x 300 mm	USD 2231.00				

Coil

Web Code
 764-997-358
 624-673-869

Width 250mm	Length	Quantity	
		1 Reel	
	0.2 m	USD 1592.00	
	0.5 m	USD 3655.00	

Disks

Web Code
 529-501-916
 187-746-361
 468-297-959
 537-237-852
 154-727-394
 340-915-136
 614-395-314

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 402.00	USD 460.00	USD 602.00
6 mm	USD 440.00	USD 514.00	USD 688.00
8 mm	USD 478.00	USD 569.00	USD 775.00
10 mm	USD 517.00	USD 623.00	USD 863.00
15 mm	USD 612.00	USD 759.00	USD 1077.00
25 mm	USD 804.00	USD 1031.00	USD 1510.00
50 mm	USD 1289.00	USD 2029.00	

Typical Analysis : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.

AG000268

Thickness **0.030mm**
 Temper **Annealed**

Purity **99.95+ %**

NLT Sizes

Web Code
 898-368-574

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
260 x 300 mm	USD 589.00	USD 767.00		

Sizes LT

Web Code
 735-443-620
 161-690-586
 399-654-952

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
50 x 50 mm	USD 243.00	USD 279.00	USD 354.00	USD 435.00
100 x 100 mm	USD 319.00	USD 385.00	USD 522.00	
260 x 300 mm	USD 677.00	USD 883.00		

Coil

Web Code
 119-574-183
 321-021-434
 888-538-443

Width 260mm	Length	Quantity	
		1 Reel	
	0.2 m	USD 560.00	
	0.5 m	USD 760.00	
	1 m	USD 986.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000808

Typical Analysis :
 Cu 70, Fe 5, Na 1,
 Pb 1, Zn 5.

AG000280

Thickness **0.035mm**
 Temper **As Rolled**

Purity **99.95+ %**

Size

Web Code
 799-413-360
 926-668-417
 833-551-725
 193-973-026

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 209.00	USD 229.00	USD 272.00	USD 327.00	USD 416.00
50 x 50 mm	USD 248.00	USD 283.00	USD 358.00	USD 449.00	USD 588.00
100 x 100 mm	USD 325.00	USD 392.00	USD 530.00	USD 692.00	
150 x 150 mm	USD 402.00	USD 501.00	USD 702.00	USD 935.00	

Coil

Web Code
 246-630-123
 828-770-354
 596-287-526

Width 150mm	Length	Quantity	
		1 Reel	
	0.5 m	USD 642.00	
	1 m	USD 817.00	
	2 m	USD 1064.00	

Disks

Web Code
 535-942-199
 992-766-659
 095-827-457
 978-431-139
 303-888-550
 986-065-377
 258-173-627

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 360.00	USD 415.00	USD 573.00
6 mm	USD 371.00	USD 432.00	USD 599.00
8 mm	USD 383.00	USD 449.00	USD 625.00
10 mm	USD 395.00	USD 465.00	USD 652.00
15 mm	USD 424.00	USD 507.00	USD 717.00
25 mm	USD 483.00	USD 590.00	USD 849.00
50 mm	USD 630.00	USD 798.00	USD 1181.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Foil

AG000281

Thickness **0.035mm**
 Temper **As Rolled**

Purity **99.95 + %**

Size

Web Code
 516-981-227

Size	Quantity		
	1pc	2pcs	5pcs
300 x 300 mm	USD 632.00	USD 827.00	USD 1416.00

Coil

Web Code
 517-462-502
 636-312-125

Length	Quantity	
	1 Reel	
0.5 m	USD 816.00	
1 m	USD 1063.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000300

Thickness **0.05mm**
 Temper **As Rolled**

Purity **99.95 + %**

Size

Web Code
 271-709-174
 963-646-487
 455-802-041
 975-253-562
 906-698-199

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 209.00	USD 228.00	USD 269.00	USD 320.00	USD 399.00
50 x 50 mm	USD 247.00	USD 282.00	USD 355.00	USD 442.00	USD 571.00
100 x 100 mm	USD 324.00	USD 391.00	USD 527.00	USD 685.00	USD 941.00
150 x 150 mm	USD 401.00	USD 500.00	USD 700.00	USD 1002.00	
150 x 300 mm	USD 497.00	USD 636.00	USD 986.00		

Coil

Web Code
 337-264-835
 158-106-908

Length	Quantity	
	1 Reel	
0.5 m	USD 643.00	
1 m	USD 818.00	

Disks

Web Code
 420-378-938
 547-374-000
 421-758-076
 719-750-655
 968-834-530
 104-315-377
 039-423-456

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 327.00	USD 363.00	USD 459.00
6 mm	USD 337.00	USD 377.00	USD 481.00
8 mm	USD 346.00	USD 391.00	USD 503.00
10 mm	USD 356.00	USD 405.00	USD 525.00
15 mm	USD 381.00	USD 440.00	USD 580.00
25 mm	USD 430.00	USD 509.00	USD 690.00
50 mm	USD 553.00	USD 685.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000305

Thickness **0.05mm**
 Temper **Annealed**

Purity **99.95 + %**

Size

Web Code
 744-471-293
 712-441-871
 969-722-169
 670-387-234

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
50 x 50 mm	USD 247.00	USD 282.00	USD 355.00	USD 442.00
100 x 100 mm	USD 324.00	USD 391.00	USD 527.00	USD 685.00
150 x 150 mm	USD 401.00	USD 500.00	USD 700.00	
300 x 300 mm	USD 633.00	USD 827.00		

Coil

Web Code
 103-069-874
 803-392-056

Length	Quantity	
	1 Reel	
0.5 m	USD 818.00	
1 m	USD 1293.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000320

Thickness **0.06mm**
 Temper **Annealed**

Purity **99.95 + %**

Size

Web Code
 218-545-059
 519-731-399
 418-677-580
 024-566-709

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
50 x 50 mm	USD 255.00	USD 293.00	USD 371.00	USD 465.00
100 x 100 mm	USD 339.00	USD 412.00	USD 560.00	USD 732.00
150 x 150 mm	USD 423.00	USD 532.00	USD 749.00	
300 x 300 mm	USD 677.00	USD 945.00		

Coil

Web Code
 733-429-862
 158-400-310

Length	Quantity	
	1 Reel	
0.5 m	USD 875.00	
1 m	USD 1507.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000341

Thickness **0.075mm**
 Purity **99.95 + %**

Coil width **0.40mm**
 Temper **Annealed**

Coil

Web Code
 606-919-894
 717-448-560
 942-641-950
 464-660-176
 937-253-213

Length	Quantity	
	1 Reel	
0.2 m	USD 218.00	
0.5 m	USD 237.00	
1 m	USD 260.00	
2 m	USD 297.00	
5 m	USD 396.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Foil

AG000340

Thickness **0.075mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code

927-932-681
 991-578-549
 947-322-413
 415-311-720
 913-970-434

Size
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 150 x 300 mm

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 210.00	USD 229.00	USD 271.00	USD 323.00	USD 403.00
50 x 50 mm	USD 249.00	USD 285.00	USD 359.00	USD 448.00	USD 580.00
100 x 100 mm	USD 328.00	USD 397.00	USD 536.00	USD 698.00	USD 979.00
150 x 150 mm	USD 407.00	USD 509.00	USD 713.00	USD 1044.00	
150 x 300 mm	USD 506.00	USD 648.00	USD 1029.00		

Coil

Web Code

407-797-261
 974-660-913
 832-624-495

Width 150mm

Length 1 Reel
 0.5 m USD 654.00
 1 m USD 834.00
 2 m USD 1351.00

Quantity

Disks

Web Code

246-310-066
 788-760-620
 595-085-912
 385-738-487
 217-305-754
 163-219-131
 402-399-292

Diameter
 4 mm
 6 mm
 8 mm
 10 mm
 15 mm
 25 mm
 50 mm

Quantity			
	10 disks	20 disks	50 disks
4 mm	USD 327.00	USD 364.00	USD 460.00
6 mm	USD 337.00	USD 378.00	USD 483.00
8 mm	USD 347.00	USD 393.00	USD 505.00
10 mm	USD 357.00	USD 407.00	USD 528.00
15 mm	USD 383.00	USD 443.00	USD 585.00
25 mm	USD 433.00	USD 514.00	USD 698.00
50 mm	USD 560.00	USD 694.00	USD 985.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000349

Thickness **0.09mm**
 Purity **99.95+%**

Coil width **101.6mm**
 Temper **Annealed**

Coil

Web Code

256-415-145
 014-908-354
 939-737-420
 741-704-810

Width 101.6mm

Length 1 Reel
 0.1 m USD 448.00
 0.2 m USD 538.00
 0.5 m USD 717.00
 1 m USD 919.00

Quantity

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000350

Thickness **0.1mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code

299-906-616
 488-336-802
 042-107-826
 805-208-471

Size
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 238.00	USD 264.00	USD 321.00	USD 389.00	USD 495.00
50 x 50 mm	USD 295.00	USD 345.00	USD 448.00	USD 568.00	USD 749.00
100 x 100 mm	USD 408.00	USD 505.00	USD 702.00	USD 928.00	
150 x 150 mm	USD 522.00	USD 666.00	USD 979.00		

Coil

Web Code

757-115-280
 639-409-237

Width 150mm

Length 1 Reel
 0.5 m USD 853.00
 1 m USD 1278.00

Quantity

Disks

Web Code

934-617-004
 827-131-245
 391-411-438
 926-437-012
 804-628-648
 578-579-239
 322-404-728

Diameter
 4 mm
 6 mm
 8 mm
 10 mm
 15 mm
 25 mm
 50 mm

Quantity			
	10 disks	20 disks	50 disks
4 mm	USD 347.00	USD 391.00	USD 494.00
6 mm	USD 362.00	USD 411.00	USD 526.00
8 mm	USD 376.00	USD 432.00	USD 559.00
10 mm	USD 391.00	USD 452.00	USD 591.00
15 mm	USD 427.00	USD 503.00	USD 672.00
25 mm	USD 499.00	USD 605.00	USD 834.00
50 mm	USD 680.00	USD 862.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Foil

AG000351

Thickness **0.1mm**
 Temper **Annealed**

Purity **99.95+%**

Size

Web Code

230-067-974
 224-325-535
 425-817-181
 491-107-027
 084-572-285

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 238.00	USD 264.00	USD 321.00	USD 389.00	USD 495.00
50 x 50 mm	USD 295.00	USD 345.00	USD 448.00	USD 568.00	USD 749.00
100 x 100 mm	USD 408.00	USD 505.00	USD 702.00	USD 928.00	
150 x 150 mm	USD 522.00	USD 666.00	USD 979.00		
300 x 300 mm	USD 862.00	USD 1440.00			

Coil

Web Code
 236-323-329

Width	Length	Quantity
300mm	1 Reel	
	0.5 m	USD 1278.00

Disks

Web Code
 628-063-058
 754-762-451
 294-346-083
 514-111-031
 968-364-391
 142-002-434
 630-070-732

Diameter	Quantity			
	10 disks	20 disks	50 disks	100 disks
4 mm	USD 347.00	USD 391.00	USD 494.00	USD 653.00
6 mm	USD 362.00	USD 411.00	USD 526.00	USD 699.00
8 mm	USD 376.00	USD 432.00	USD 559.00	USD 745.00
10 mm	USD 391.00	USD 452.00	USD 591.00	USD 791.00
15 mm	USD 427.00	USD 503.00	USD 672.00	USD 905.00
25 mm	USD 499.00	USD 605.00	USD 834.00	USD 1135.00
50 mm	USD 680.00	USD 862.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000403

Thickness **0.125mm**
 Purity **99.95+%**

Coil width **25mm**
 Temper **Annealed**

Coil

Web Code
 982-226-329
 113-103-211
 624-853-424
 074-551-025

Width	Length	Quantity
25mm	1 Reel	
	0.2 m	USD 314.00
	0.5 m	USD 369.00
	1 m	USD 431.00
	2 m	USD 519.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000400

Thickness **0.125mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code

591-427-080
 928-377-171
 047-145-015
 893-125-424
 640-678-456

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 203.00	USD 219.00	USD 255.00	USD 299.00	USD 369.00
50 x 50 mm	USD 236.00	USD 266.00	USD 329.00	USD 404.00	USD 518.00
100 x 100 mm	USD 303.00	USD 360.00	USD 478.00	USD 767.00	
150 x 150 mm	USD 369.00	USD 454.00	USD 825.00		
150 x 300 mm	USD 452.00	USD 688.00			

Coil

Web Code
 718-137-852
 799-075-741

Width	Length	Quantity
150mm	1 Reel	
	0.5 m	USD 650.00
	1 m	USD 1081.00

Disks

Web Code
 084-806-068
 600-759-304
 094-914-416
 864-303-159
 037-891-087
 736-378-266
 047-278-081

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 320.00	USD 354.00	USD 447.00
6 mm	USD 329.00	USD 366.00	USD 466.00
8 mm	USD 337.00	USD 378.00	USD 485.00
10 mm	USD 346.00	USD 390.00	USD 505.00
15 mm	USD 367.00	USD 420.00	USD 552.00
25 mm	USD 409.00	USD 480.00	USD 648.00
50 mm	USD 516.00	USD 633.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000401

Thickness **0.125mm**
 Temper **Annealed**

Purity **99.95+%**

Size

Web Code

168-161-815
 279-256-347
 774-052-616
 039-973-235

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 203.00	USD 219.00	USD 255.00	USD 299.00	USD 369.00
50 x 50 mm	USD 236.00	USD 266.00	USD 329.00	USD 404.00	USD 518.00
125 x 150 mm	USD 352.00	USD 430.00	USD 718.00		
150 x 250 mm	USD 427.00	USD 602.00			

Disks

Web Code
 735-481-648
 145-252-099
 479-116-531
 951-098-798
 401-444-418
 535-184-170
 427-018-577

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 320.00	USD 354.00	USD 447.00
6 mm	USD 329.00	USD 366.00	USD 466.00
8 mm	USD 337.00	USD 378.00	USD 485.00
10 mm	USD 346.00	USD 390.00	USD 505.00
15 mm	USD 367.00	USD 420.00	USD 552.00
25 mm	USD 409.00	USD 480.00	USD 648.00
50 mm	USD 516.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal - Silver

Silver

Ag



Foil

AG000360

Thickness **0.125mm**
 Temper **As Rolled**

High Purity **99.99%**

Size

Web Code

300-587-929
 573-496-939
 687-123-521
 890-446-789

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 296.00	USD 336.00	USD 418.00	USD 516.00
50 x 50 mm	USD 384.00	USD 461.00	USD 616.00	USD 796.00
100 x 100 mm	USD 562.00	USD 712.00	USD 1013.00	
150 x 150 mm	USD 739.00	USD 962.00		

Disks

Web Code

305-849-324
 231-174-532
 896-820-030
 102-510-098
 813-760-386
 720-037-877
 004-731-494

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 390.00	USD 440.00	USD 556.00
6 mm	USD 412.00	USD 472.00	USD 607.00
8 mm	USD 435.00	USD 504.00	USD 657.00
10 mm	USD 457.00	USD 535.00	USD 708.00
15 mm	USD 513.00	USD 615.00	USD 834.00
25 mm	USD 626.00	USD 774.00	
50 mm	USD 908.00		

Typical Analysis : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.

AG000402

Thickness **0.125mm**
 Temper **Annealed**

Purity **99.95+ %**

Size

Web Code

657-938-640
 790-472-654

Size	Quantity		
	1pc	2pcs	5pcs
125 x 300 mm	USD 427.00	USD 602.00	USD 1255.00
250 x 300 mm	USD 600.00	USD 1032.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000410

Thickness **0.15mm**
 Temper **As Rolled**

Purity **99.95+ %**

Size

Web Code

909-755-160
 719-390-109
 923-773-457
 471-677-135

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 236.00	USD 267.00	USD 331.00	USD 408.00	USD 526.00
50 x 50 mm	USD 303.00	USD 360.00	USD 479.00	USD 617.00	USD 822.00
100 x 100 mm	USD 435.00	USD 548.00	USD 775.00	USD 1146.00	
150 x 150 mm	USD 567.00	USD 735.00	USD 1248.00		

Coil

Web Code

078-056-952

Width 150mm Length	Quantity
	1 Reel
0.5 m	USD 945.00

Disks

Web Code

959-640-924
 955-123-059
 390-384-075
 798-003-962
 750-492-079
 811-500-832
 437-601-236

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 341.00	USD 387.00	USD 494.00
6 mm	USD 358.00	USD 411.00	USD 532.00
8 mm	USD 375.00	USD 434.00	USD 569.00
10 mm	USD 392.00	USD 458.00	USD 607.00
15 mm	USD 434.00	USD 518.00	USD 701.00
25 mm	USD 518.00	USD 637.00	USD 890.00
50 mm	USD 729.00	USD 937.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000420

Thickness **0.20mm**
 Temper **As Rolled**

Purity **99.95+ %**

Size

Web Code

744-458-138
 744-322-137
 855-200-557
 920-981-877

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 198.00	USD 222.00	USD 271.00	USD 330.00
50 x 50 mm	USD 249.00	USD 294.00	USD 386.00	USD 493.00
100 x 100 mm	USD 353.00	USD 440.00	USD 709.00	
150 x 150 mm	USD 456.00	USD 647.00		

Coil

Web Code

987-699-862

Width 150mm Length	Quantity
	1 Reel
0.3 m	USD 696.00

Disks

Web Code

246-004-067
 309-986-610
 798-261-927
 277-679-753
 347-741-391
 684-035-737
 116-601-947

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 303.00	USD 343.00	USD 457.00
6 mm	USD 316.00	USD 361.00	USD 486.00
8 mm	USD 329.00	USD 380.00	USD 516.00
10 mm	USD 342.00	USD 399.00	USD 546.00
15 mm	USD 375.00	USD 445.00	USD 620.00
25 mm	USD 441.00	USD 539.00	
50 mm	USD 607.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Foil

AG000450

Thickness **0.25mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code

700-159-463
 519-933-221
 991-660-120
 957-514-896

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 204.00	USD 230.00	USD 284.00	USD 349.00
50 x 50 mm	USD 262.00	USD 312.00	USD 413.00	USD 532.00
100 x 100 mm	USD 377.00	USD 475.00	USD 848.00	
150 x 150 mm	USD 492.00	USD 772.00		

Disks

Web Code

689-360-807
 170-111-784
 263-969-383
 996-173-727
 521-717-479
 214-685-739
 835-721-514

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 306.00	USD 347.00	USD 464.00
6 mm	USD 320.00	USD 368.00	USD 497.00
8 mm	USD 335.00	USD 389.00	USD 530.00
10 mm	USD 350.00	USD 410.00	USD 564.00
15 mm	USD 387.00	USD 462.00	USD 646.00
25 mm	USD 460.00	USD 566.00	
50 mm	USD 647.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000460

Thickness **0.25mm**
 Temper **As Rolled**

High Purity **99.99%**

Size

Web Code

465-189-035
 148-630-463
 578-810-212
 351-283-139

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 335.00	USD 392.00	USD 507.00	USD 641.00	USD 841.00
50 x 50 mm	USD 464.00	USD 573.00	USD 794.00	USD 1047.00	
100 x 100 mm	USD 721.00	USD 936.00	USD 1508.00		
150 x 150 mm	USD 977.00	USD 1369.00			

Disks

Web Code

910-393-837
 799-230-551
 903-824-955
 978-117-145
 264-638-871
 079-858-634
 982-331-399

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 410.00	USD 468.00	USD 602.00
6 mm	USD 443.00	USD 515.00	USD 675.00
8 mm	USD 475.00	USD 561.00	USD 749.00
10 mm	USD 508.00	USD 607.00	USD 822.00
15 mm	USD 589.00	USD 723.00	USD 1005.00
25 mm	USD 753.00	USD 954.00	USD 1373.00
50 mm	USD 1164.00	USD 1679.00	

Typical Analysis : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.

AG000451

Thickness **0.25mm**
 Temper **As Rolled**

Purity **99.95+%**
 Condition **Flattened**

Size

Web Code

053-210-237
 974-303-394
 600-834-348

Size	Quantity
	1pc
250 x 300 mm	POA
300 x 500 mm	POA
300 x 1000 mm	POA

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000462

Thickness **0.30mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code

507-430-987
 914-087-326
 762-874-934

Size	Quantity		
	1pc	2pcs	5pcs
50 x 50 mm	USD 273.00	USD 327.00	USD 438.00
100 x 100 mm	USD 399.00	USD 506.00	
150 x 150 mm	USD 525.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000466

Thickness **0.5mm**
 Temper **As Rolled**

Purity **99.95+%**

Disks

Web Code

548-214-823

Diameter	Quantity			
	1 disks	2 disks	5 disks	10 disks
19 mm	USD 210.00	USD 231.00	USD 275.00	USD 332.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal - Silver

Silver

Ag



Foil

AG000465

Thickness **0.5mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code

791-424-639
 928-082-106
 010-264-694
 283-079-216

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 191.00	USD 223.00	USD 295.00
50 x 50 mm	USD 250.00	USD 306.00	USD 534.00
100 x 100 mm	USD 429.00	USD 733.00	
150 x 150 mm	USD 800.00		

Disks

Web Code

384-904-190
 113-012-531
 126-567-300
 820-918-537
 614-822-695
 852-834-007

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 369.00	USD 478.00	USD 603.00
6 mm	USD 387.00	USD 505.00	USD 647.00
8 mm	USD 406.00	USD 532.00	USD 692.00
10 mm	USD 426.00	USD 560.00	USD 738.00
15 mm	USD 472.00	USD 626.00	USD 946.00
25 mm	USD 565.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000470

Thickness **0.5mm**
 Temper **As Rolled**

High Purity **99.99%**

Size

Web Code

531-309-788
 413-722-432
 715-308-269
 413-527-916

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 228.00	USD 267.00	USD 360.00
50 x 50 mm	USD 292.00	USD 359.00	USD 661.00
100 x 100 mm	USD 520.00	USD 890.00	
150 x 150 mm	USD 966.00		

Disks

Web Code

690-989-562
 373-691-320
 711-424-322
 928-048-123
 006-017-828
 752-225-476

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 419.00	USD 499.00	USD 720.00
6 mm	USD 440.00	USD 528.00	USD 769.00
8 mm	USD 461.00	USD 558.00	USD 819.00
10 mm	USD 482.00	USD 589.00	USD 871.00
15 mm	USD 532.00	USD 662.00	USD 1141.00
25 mm	USD 658.00		

Typical Analysis : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.

AG000467

Thickness **0.5mm**
 Temper **As Rolled**

Purity **99.95+%**
 Condition **Flattened**

Size

Web Code

069-278-803
 888-683-904
 015-577-273

Size	Quantity		
	1pc	2pcs	5pcs
50 x 50 mm	USD 264.00	USD 326.00	USD 628.00
100 x 100 mm	USD 504.00	USD 884.00	
100 x 200 mm	USD 876.00		

Disks

Web Code

811-092-018
 583-840-202
 489-037-670
 556-277-134
 943-855-488
 120-638-443

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 373.00	USD 484.00	USD 613.00
6 mm	USD 394.00	USD 514.00	USD 663.00
8 mm	USD 415.00	USD 545.00	USD 714.00
10 mm	USD 437.00	USD 577.00	USD 767.00
15 mm	USD 489.00	USD 651.00	
25 mm	USD 623.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000468

Thickness **0.5mm**
 Temper **As Rolled**

Purity **99.95+%**
 Condition **Flattened**

Size

Web Code

566-671-454
 453-719-107
 445-665-999

Size	Quantity
	1pc
200 x 200 mm	POA
200 x 500 mm	POA
200 x 1000 mm	POA

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal - Silver

Silver

Ag



Foil

AG000475

Thickness **1.0mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code
 522-321-168
 290-145-234
 268-155-416
 519-427-971

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 215.00	USD 258.00	USD 350.00	USD 573.00
50 x 50 mm	USD 299.00	USD 436.00	POA	
100 x 100 mm	USD 725.00	POA		
150 x 150 mm	POA			

Disks

Web Code
 928-494-171
 061-763-030
 720-380-118
 047-512-658
 939-080-656
 385-075-421

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 384.00	USD 500.00	USD 639.00
6 mm	USD 411.00	USD 539.00	USD 703.00
8 mm	USD 438.00	USD 579.00	USD 771.00
10 mm	USD 466.00	USD 620.00	USD 913.00
15 mm	USD 532.00	USD 767.00	USD 1371.00
25 mm	USD 796.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000480

Thickness **1.0mm**
 Temper **As Rolled**

High Purity **99.99%**

Size

Web Code
 803-188-199
 398-513-657
 814-203-421
 775-425-448

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 254.00	USD 305.00	USD 438.00	USD 687.00
50 x 50 mm	USD 346.00	USD 533.00	USD 1108.00	
100 x 100 mm	USD 877.00	USD 1604.00		
150 x 150 mm	USD 1769.00			

Disks

Web Code
 928-182-660
 022-826-336
 853-288-937
 661-113-318
 639-162-857
 895-352-790

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 436.00	USD 523.00	USD 760.00
6 mm	USD 466.00	USD 566.00	USD 831.00
8 mm	USD 496.00	USD 610.00	USD 932.00
10 mm	USD 527.00	USD 656.00	USD 1102.00
15 mm	USD 599.00	USD 851.00	USD 1653.00
25 mm	USD 937.00		

Typical Analysis : Al 1, Au 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1.

AG000501

Thickness **2.0mm**
 Temper **As Rolled**

Purity **99.95+%**
 Surface Finish **Polished On One Side**

Size

Web Code
 749-854-965
 133-620-491

Size	Quantity	
	1pc	2pcs
25 x 25 mm	USD 277.00	USD 363.00
50 x 50 mm	USD 579.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000500

Thickness **2.0mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code
 886-463-838
 807-986-754
 998-344-859
 793-112-360

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 250.00	USD 306.00	USD 534.00	USD 944.00
50 x 50 mm	USD 429.00	USD 733.00	POA	
100 x 100 mm	POA			
150 x 150 mm	POA			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000530

Thickness **3mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code
 168-604-721
 075-588-921

Size	Quantity	
	1pc	2pcs
50 x 50 mm	USD 577.00	POA
100 x 100 mm	POA	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG000550

Thickness **6mm**
 Temper **As Rolled**

Purity **99.95+%**

Size

Web Code
 633-912-487
 239-060-997

Size	Quantity	
	1pc	2pcs
50 x 50 mm	USD 1022.00	POA
100 x 100 mm	POA	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Sputtering Target

AG009300	Thickness 3.0mm	Purity 99.99%
Size	Quantity	
Web Code	Disk diam.	1disk
573-225-486	25 mm	POA
864-826-379	50 mm	POA
547-787-190	75 mm	POA

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

AG009500	Thickness 5.0mm	Purity 99.99%
Size	Quantity	
Web Code	Disk diam.	1disk
174-891-771	31 mm	POA

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

AG009600	Thickness 6.0mm	Purity 99.99%
Size	Quantity	
Web Code	Disk diam.	1disk
655-741-648	25 mm	POA
103-292-296	50 mm	POA
940-851-290	75 mm	POA

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.



Mesh

AG008711	Nominal Aperture 0.196mm	Wire diameter 0.058mm
	Wires/inch 100x100	Open area 60%
	Type Plain Weave Mesh	
Size	Quantity	
Web Code	Size	1pc 2pcs 5pcs
677-732-139	25 x 25 mm	USD 311.00 USD 388.00 USD 534.00
964-471-909	50 x 50 mm	USD 434.00 USD 613.00
342-163-985	100 x 100 mm	USD 984.00

AG008710	Nominal Aperture 0.25mm	Wire diameter 0.06mm
	Wires/inch 82x82	Open area 65%
	Type Plain Weave Mesh	
Size	Quantity	
Web Code	Size	1pc 2pcs 5pcs
427-988-190	18 x 20 mm	USD 334.00 USD 420.00 USD 608.00
998-598-208	50 x 50 mm	USD 672.00 USD 1181.00
218-082-907	100 x 100 mm	USD 2121.00



Wire

AG005102	Diameter 0.0125mm	Purity 99.99%
	Temper Hard	
Length	Quantity	
Web Code	Length	1 Reel
481-295-095	1 m	USD 780.00
576-820-421	5 m	USD 1492.00

Typical Analysis : Al <2, Au <2, Bi <2, Cd <2, Cu 15, Fe <5, In <1, Mn <2, Ni <2, Pb <3, Sb <2, Sn <3, Zn <10.
 1m and 5m reels only.

AG005104	Diameter 0.015mm	Purity 99.99%
	Temper Hard	
Length	Quantity	
Web Code	Length	1 Reel
630-723-128	1 m	USD 647.00
812-683-428	5 m	USD 1196.00

Typical Analysis : Al <2, Au <2, Bi <2, Cd <2, Cu 15, Fe <5, In <1, Mn <2, Ni <2, Pb <3, Sb <2, Sn <3, Zn <10.
 1m and 5m reels only.

Metal – Silver

Silver

Ag



Wire

AG005106

Diameter **0.015mm**
 Temper **Annealed**

Purity **99.99%**

Length

Web Code
 842-179-781
 352-116-082

Quantity	
Length	1 Reel
1 m	USD 647.00
5 m	USD 1196.00

Typical Analysis : Al <2, Au <2, Bi <2, Cd <2, Cu 15, Fe <5, In <1, Mn <2, Ni <2, Pb <3, Sb <2, Sn <3, Zn <10.
 1m and 5m reels only.

AG005105

Diameter **0.025mm**
 Temper **As Drawn**

Purity **99.99%**

Length

Web Code
 400-124-346
 894-058-488
 015-547-801
 943-483-788
 757-309-898

Quantity	
Length	1 Reel
1 m	USD 316.00
2 m	USD 363.00
5 m	USD 456.00
10 m	USD 560.00
20 m	USD 708.00

Typical Analysis : Al 5, Au 5, Bi 2, Cd 3, Cu 35, Fe 10, Mn 2, Ni <3, Pb <3, Sb 5, Sn 2, Zn 10.

AG005107

Diameter **0.025mm**
 Temper **Annealed**

Purity **99.99%**

Length

Web Code
 768-706-486
 736-160-368
 399-621-444
 735-434-408
 386-940-005

Quantity	
Length	1 Reel
1 m	USD 316.00
2 m	USD 363.00
5 m	USD 456.00
10 m	USD 560.00
20 m	USD 708.00

Typical Analysis : Al 5, Au 5, Bi 2, Cd 3, Cu 35, Fe 10, Mn 2, Ni <3, Pb <3, Sb 5, Sn 2, Zn 10.

AG005220

Diameter **0.050mm**
 Coating **Gold Plated Wire**

Purity **99.99%**

Length

Web Code
 514-124-632
 265-586-244
 198-278-164
 784-770-696

Quantity	
Length	1 Reel
0.5 m	USD 340.00
1 m	USD 429.00
2 m	USD 561.00
5 m	USD 792.00

Typical Analysis : Al 5, Au 5, Bi 2, Cd 3, Cu 35, Fe 10, Mn 2, Ni <3, Pb <3, Sb 5, Sn 2, Zn 10.

AG005110

Diameter **0.05mm**
 Temper **Annealed**

Purity **99.99%**

Length

Web Code
 957-599-601
 699-955-698
 494-452-202
 084-579-922

Quantity	
Length	1 Reel
10 m	USD 182.00
50 m	USD 229.00
100 m	USD 269.00
200 m	USD 331.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005113

Diameter **0.075mm**
 Temper **As Drawn**

Purity **99.99%**

Length

Web Code
 479-762-946

Quantity	
Length	1 Reel
5 m	USD 172.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005116

Diameter **0.1mm**
 Temper **As Drawn**

Purity **99.99%**

Length

Web Code
 481-480-508
 326-497-782
 122-665-353
 109-457-739
 046-724-257

Quantity	
Length	1 Reel
5 m	USD 178.00
10 m	USD 199.00
20 m	USD 218.00
100 m	USD 306.00
500 m	USD 731.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

Metal – Silver

Silver

Ag



Wire

AG005120	Diameter 0.125mm	Purity 99.99%
	Temper Annealed	
	Length	Quantity
Web Code	Length	1 Reel
151-579-198	5 m	USD 175.00
296-185-237	10 m	USD 197.00
023-152-475	20 m	USD 216.00
423-805-466	100 m	USD 303.00
975-678-029	500 m	USD 728.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005124	Diameter 0.15mm	Purity 99.99%
	Temper As Drawn	
	Length	Quantity
Web Code	Length	1 Reel
186-212-663	5 m	USD 181.00
962-029-208	10 m	USD 206.00
276-528-993	20 m	USD 228.00
066-883-234	100 m	USD 331.00
644-713-387	250 m	USD 554.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005127	Diameter 0.20mm	Purity 99.99%
	Temper As Drawn	
	Length	Quantity
Web Code	Length	1 Reel
638-407-209	5 m	USD 177.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005140	Diameter 0.25mm	High Purity 99.997%
	Temper As Drawn	
	Length	Quantity
Web Code	Length	1 Reel
921-766-017	0.5 m	USD 230.00
220-756-578	1 m	USD 249.00
594-563-020	5 m	USD 342.00
926-153-406	10 m	USD 428.00
320-381-962	25 m	USD 637.00

Typical Analysis : Ca <1, Cd <1, Cu <1, Fe 2, Mg <1, Na <1, Si 1.

AG005130	Diameter 0.25mm	Purity 99.99%
	Temper Annealed	
	Length	Quantity
Web Code	Length	1 Reel
267-930-189	5 m	USD 177.00
693-428-466	10 m	USD 209.00
769-178-752	20 m	USD 241.00
147-346-943	50 m	USD 324.00
408-095-179	100 m	USD 516.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005145	Diameter 0.35mm	Purity 99.99%
	Temper Annealed	
	Length	Quantity
Web Code	Length	1 Reel
683-764-154	5 m	USD 200.00
824-966-838	10 m	USD 242.00
806-343-485	20 m	USD 288.00
699-562-183	50 m	USD 520.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005150	Diameter 0.5mm	Purity 99.99%
	Temper Annealed	
	Length	Quantity
Web Code	Length	1 Reel
968-137-820	1 m	USD 195.00
978-373-859	2 m	USD 222.00
017-233-069	5 m	USD 276.00
548-406-522	10 m	USD 337.00
651-924-636	20 m	USD 447.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

Metal – Silver

Silver

Ag



Wire

AG005155	Diameter 0.8mm	Purity 99.99%
	Temper As Drawn	
	Length	Quantity
	Web Code	Length 1 Reel
	778-702-015	0.5 m USD 198.00
	684-352-316	1 m USD 230.00
	296-735-914	2 m USD 272.00
	544-039-509	5 m USD 355.00
	004-942-766	10 m USD 507.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005161	Diameter 1.0mm	Purity 99.99%
	Temper Hard	
	Length	Quantity
	Web Code	Length 1 Reel
	498-384-737	0.1 m USD 169.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005160	Diameter 1.0mm	Purity 99.99%
	Temper Annealed	
	Length	Quantity
	Web Code	Length 1 Reel
	660-397-904	0.2 m USD 180.00
	638-652-448	0.5 m USD 214.00
	831-560-817	1 m USD 253.00
	945-108-740	5 m USD 412.00
	138-597-256	10 m USD 693.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG005170	Diameter 2.0mm	Purity 99.99%
	Temper Annealed	
	Length	Quantity
	Web Code	Length 1 Reel
	067-692-009	0.1 m USD 199.00
	093-089-768	0.2 m USD 230.00
	182-612-668	0.5 m USD 293.00
	106-632-196	1 m USD 364.00
	280-150-840	2 m USD 541.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.



Insulated Wire

Insulating coatings of polyurethane, polyimide and Nylon are also available.

AG005816	Conductor diameter 0.025mm	Insulation thickness 0.005mm
	Purity 99.99%	Insulation Polyurethane
	Length	Quantity
	Web Code	Length 1 Reel
	700-181-291	2 m USD 209.00
	362-058-607	5 m USD 247.00
	006-658-610	10 m USD 289.00
	982-650-667	20 m USD 418.00
	580-856-464	50 m USD 803.00

Typical Analysis :

AG005815	Conductor diameter 0.025mm	Insulation thickness 0.005mm
	Purity 99.99%	Insulation Polyester
	Length	Quantity
	Web Code	Length 1 Reel
	245-395-644	2 m USD 209.00
	674-453-878	5 m USD 247.00
	306-736-610	10 m USD 289.00
	342-083-886	20 m USD 418.00
	760-486-230	50 m USD 803.00

Typical Analysis :

AG005818	Conductor diameter 0.025mm	Insulation thickness 0.005mm
	Purity 99.99%	Insulation Polyimide
	Length	Quantity
	Web Code	Length 1 Reel
	055-425-890	2 m USD 209.00
	731-453-478	5 m USD 247.00
	677-609-388	10 m USD 289.00
	403-579-202	20 m USD 418.00
	594-236-439	50 m USD 803.00

Typical Analysis :

Metal – Silver

Silver

Ag



Insulated Wire

AG005820

Conductor diameter..... **0.04mm** Insulation thickness..... **0.007mm**
 Purity..... **99.99%** Insulation..... **Polyester**
 Condition..... **Butyral Bond Coating 0.005 mm Thick**

Length		Quantity	
Web Code	Length	1 Reel	
142-079-812	2 m	USD 303.00	
280-245-454	5 m	USD 452.00	
945-134-514	10 m	USD 762.00	
207-450-190	20 m	USD 1382.00	
103-866-156	50 m	USD 3244.00	

Typical Analysis :

AG005825

Conductor diameter..... **0.05mm** Insulation thickness..... **0.0075mm**
 Purity..... **99.99%** Insulation..... **Polyester**

Length		Quantity	
Web Code	Length	1 Reel	
060-784-274	2 m	USD 201.00	
598-026-663	5 m	USD 235.00	
753-335-176	10 m	USD 274.00	
166-893-478	20 m	USD 364.00	
861-682-780	50 m	USD 697.00	

Typical Analysis :

AG005810

Conductor diameter..... **0.075mm** Insulation thickness..... **0.010mm**
 Purity..... **99.99%** Insulation..... **PTFE (Polytetrafluoroethylene)**

Length		Quantity	
Web Code	Length	1 Reel	
096-329-213	1 m	USD 208.00	
041-150-010	2 m	USD 245.00	
143-761-023	5 m	USD 363.00	
970-127-738	10 m	USD 606.00	
265-963-128	20 m	USD 1072.00	

Typical Analysis :

AG005811

Conductor diameter..... **0.075mm** Insulation thickness..... **0.010mm**
 Purity..... **99.99%** Insulation..... **Nylon**

Length		Quantity	
Web Code	Length	1 Reel	
603-641-993	1 m	USD 208.00	
593-052-374	2 m	USD 245.00	
824-170-461	5 m	USD 363.00	
810-673-942	10 m	USD 606.00	
092-197-979	20 m	USD 1072.00	

Typical Analysis :

AG005842

Conductor diameter..... **0.125mm** Insulation thickness..... **0.0125mm**
 Purity..... **99.9%** Insulation..... **Polyimide**

Length		Quantity	
Web Code	Length	1 Reel	
254-922-938	5 m	USD 227.00	
488-343-115	10 m	USD 263.00	
213-079-249	20 m	USD 335.00	
432-201-915	50 m	USD 626.00	

Typical Analysis : Al 1, Au 20, Bi 1, Ca 3, Cd 20, Cr <1, Cu 500, Fe 7, Mg 1, Mn <1, Na 1, Ni 10, Pb 50, Si <1, Sn 3.

AG005840

Conductor diameter..... **0.125mm** Insulation thickness..... **0.0125mm**
 Purity..... **99.99%** Insulation..... **Polyester**

Length		Quantity	
Web Code	Length	1 Reel	
710-348-690	2 m	USD 201.00	
793-580-023	5 m	USD 235.00	
197-509-905	10 m	USD 274.00	
688-747-556	20 m	USD 374.00	
093-445-271	50 m	USD 722.00	

Typical Analysis :

AG005845

Conductor diameter..... **0.125mm** Insulation thickness..... **0.015mm**
 Purity..... **99.99%** Insulation..... **PTFE (Polytetrafluoroethylene)**

Length		Quantity	
Web Code	Length	1 Reel	
479-905-483	2 m	USD 232.00	
988-178-670	5 m	USD 286.00	
522-326-550	10 m	USD 362.00	
290-815-722	20 m	USD 582.00	
351-974-430	50 m	USD 1242.00	

Typical Analysis :

Metal – Silver

Silver

Ag



Insulated Wire

AG005856

Conductor diameter **0.25mm**
 Purity **99.99%**

Insulation thickness **0.005mm**
 Insulation **Polyurethane**

Length

Web Code
 553-638-552
 753-149-323
 983-848-222
 308-044-879
 773-846-490

Quantity	
Length	1 Reel
1 m	USD 207.00
2 m	USD 234.00
5 m	USD 290.00
10 m	USD 387.00
20 m	USD 632.00

Typical Analysis :

AG005860

Conductor diameter **0.25mm**
 Purity **99.99%**

Insulation thickness **0.015mm**
 Insulation **Epoxy**

Length

Web Code
 187-116-931
 389-619-737
 702-472-680
 809-075-325
 134-422-286

Quantity	
Length	1 Reel
2 m	USD 227.00
5 m	USD 274.00
10 m	USD 357.00
20 m	USD 555.00
50 m	USD 1151.00

Typical Analysis :

AG005850

Conductor diameter **0.25mm**
 Purity **99.99%**

Insulation thickness **0.023mm**
 Insulation **Polyester**

Length

Web Code
 996-805-637
 600-708-565
 088-566-581
 070-816-359
 852-048-630

Quantity	
Length	1 Reel
2 m	USD 223.00
5 m	USD 267.00
10 m	USD 314.00
20 m	USD 450.00
50 m	USD 894.00

Typical Analysis :

AG005855

Conductor diameter **0.25mm**
 Purity **99.99%**

Insulation thickness **0.024mm**
 Insulation **PTFE (Polytetrafluoroethylene)**

Length

Web Code
 506-081-669
 260-204-931
 525-624-933
 703-115-960
 889-496-938

Quantity	
Length	1 Reel
2 m	USD 234.00
5 m	USD 290.00
10 m	USD 387.00
20 m	USD 632.00
50 m	USD 1367.00

Typical Analysis :

AG005852

Conductor diameter **0.25mm**
 Purity **99.99%**

Insulation thickness **0.025mm**
 Insulation **Polyimide**

Length

Web Code
 916-479-170
 550-344-569
 864-301-686
 294-811-503
 038-573-289

Quantity	
Length	1 Reel
1 m	USD 216.00
2 m	USD 244.00
5 m	USD 300.00
10 m	USD 400.00
20 m	USD 646.00

Typical Analysis :



Rod

AG007902

Diameter **1.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 564-072-711
 533-456-064
 000-493-514
 138-134-114

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 212.00	USD 244.00	USD 318.00	USD 376.00
200 mm	USD 233.00	USD 274.00	USD 365.00	USD 442.00
500 mm	USD 275.00	USD 333.00		
1000 mm	USD 322.00	USD 399.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007905

Diameter **1.5mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 934-961-021
 870-136-052
 767-004-718
 875-594-533

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 228.00	USD 266.00	USD 352.00	USD 424.00
200 mm	USD 255.00	USD 304.00	USD 413.00	USD 523.00
500 mm	USD 309.00	USD 381.00	USD 589.00	
1000 mm	USD 370.00	USD 480.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Rod

AG007910

Diameter **2.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 449-313-936
 164-243-000
 530-385-376
 298-163-981

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 232.00	USD 281.00	USD 390.00	USD 529.00
200 mm	USD 270.00	USD 336.00	USD 476.00	USD 796.00
500 mm	USD 347.00	USD 443.00		
1000 mm	USD 433.00	USD 710.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007912

Diameter **3.0mm**
 Temper **As Drawn**

High Purity **99.997%**

Size

Web Code
 297-366-922
 439-079-918
 714-670-162
 860-432-478

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 301.00	USD 378.00	USD 605.00
200 mm	USD 367.00	USD 488.00	USD 1028.00
500 mm	USD 562.00	USD 996.00	
1000 mm	USD 985.00		

Typical Analysis : Ca <1, Cd <1, Cu <1, Fe 2, Mg <1, Na <1, Si 1.

AG007915

Diameter **3.5mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 955-748-867
 658-418-463
 283-561-160
 348-761-097

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 266.00	USD 329.00	USD 465.00
200 mm	USD 318.00	USD 403.00	USD 704.00
500 mm	USD 422.00	USD 672.00	
1000 mm	USD 661.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007920

Diameter **5.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 270-496-864
 812-101-696
 512-703-190
 087-889-884

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 365.00	USD 469.00	USD 812.00
200 mm	USD 440.00	USD 647.00	USD 1355.00
500 mm	USD 727.00	USD 1298.00	
1000 mm	USD 1269.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007928

Diameter **6.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 442-757-320
 273-271-798
 073-145-994
 245-062-109

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
50 mm	USD 340.00	USD 433.00	USD 671.00	USD 1143.00
100 mm	USD 404.00	USD 533.00	USD 1072.00	
200 mm	USD 505.00	USD 854.00		
500 mm	USD 986.00			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007936

Diameter **7.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 713-771-282
 409-464-071
 708-248-763
 939-777-802

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
50 mm	USD 356.00	USD 456.00	USD 761.00	POA
100 mm	USD 428.00	USD 605.00	POA	
200 mm	USD 577.00	POA		
500 mm	POA			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007935

Diameter **7.0mm**
 Temper **As Drawn**

High Purity **99.99%**

Size

Web Code
 596-422-860
 959-505-818
 938-225-106
 278-144-620

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
50 mm	USD 380.00	USD 490.00	USD 904.00	USD 1610.00
100 mm	USD 461.00	USD 720.00	USD 1538.00	
200 mm	USD 691.00	USD 1227.00		
500 mm	USD 1452.00			

Typical Analysis : Au <5, Bi 3, Cd 3, Cu 70, Fe 5, Na <1, Pb <2, Sn <5.

Metal – Silver

Silver

Ag



Rod

AG007930

Diameter **7.0mm**
 Temper **As Drawn**

High Purity **99.999%**

Size

Web Code
 986-237-497
 279-676-075
 919-828-078

Length	Quantity	
	1pc	2pcs
50 mm	USD 467.00	USD 608.00
100 mm	USD 579.00	USD 946.00
200 mm	USD 918.00	

Typical Analysis : Fe 1, Mg <1, Na <1.

AG007938

Diameter **8.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 839-346-927
 573-335-736
 135-963-077
 665-205-046

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
50 mm	USD 381.00	USD 491.00	USD 910.00	USD 1621.00
100 mm	USD 462.00	USD 725.00	USD 1550.00	
200 mm	USD 696.00	USD 1237.00		
500 mm	USD 1464.00			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007940

Diameter **10.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 816-328-862
 263-411-638
 010-688-470
 336-052-872

Length	Quantity		
	1pc	2pcs	5pcs
25 mm	USD 382.00	USD 492.00	USD 851.00
50 mm	USD 458.00	USD 674.00	
100 mm	USD 640.00	USD 1114.00	
200 mm	USD 1080.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007942

Diameter **12.7mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 720-010-889
 537-766-591
 144-316-547
 593-036-399

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
25 mm	USD 428.00	USD 579.00	USD 1165.00	POA
50 mm	USD 545.00	USD 924.00	POA	
100 mm	USD 891.00	POA		
200 mm	POA			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007945

Diameter **16mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 784-855-295
 584-107-161
 461-061-205

Length	Quantity	
	1pc	2pcs
25 mm	USD 489.00	USD 788.00
50 mm	USD 754.00	USD 1343.00
100 mm	USD 1309.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007950

Diameter **20.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 825-852-001
 231-507-195
 938-394-397

Length	Quantity
	1pc
25 mm	POA
50 mm	POA
100 mm	POA

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007955

Diameter **25mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 162-008-416
 188-008-617
 925-118-395

Length	Quantity
	1pc
25 mm	POA
50 mm	POA
100 mm	POA

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007958

Diameter **35mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 327-107-558
 529-807-014
 719-776-077

Length	Quantity
	1pc
20 mm	POA
48 mm	POA
100 mm	POA

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Rod

AG007959

Diameter **40.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 748-466-839
 533-312-632
 199-378-302

Quantity

Length	1pc
12 mm	POA
25 mm	POA
50 mm	POA

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007960

Diameter **50.0mm**
 Temper **As Drawn**

Purity **99.95 + %**

Size

Web Code
 815-790-116
 973-774-743
 721-849-232

Quantity

Length	1pc
25 mm	POA
50 mm	POA
100 mm	POA

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.



Bar

AG008012

Side Length **1.25mm**
 Purity **99.95 + %**

Side Length (of longer side) **1.25mm**

Size

Web Code
 841-462-051
 982-927-183
 464-611-469
 505-663-160

Quantity

Length	1pc	2pcs	5pcs	10pcs
50 mm	USD 236.00	USD 272.00	USD 353.00	USD 453.00
100 mm	USD 261.00	USD 307.00	USD 442.00	
200 mm	USD 296.00	USD 365.00		
500 mm	USD 399.00			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.



Tube

AG007050

Outside Diameter **0.7mm**
 Inside Diameter **0.3mm**
 Temper **As Drawn**

Wall Thickness **0.2mm**
 Purity **99.95 + %**

Size

Web Code
 449-580-445
 275-425-388
 884-620-974
 706-995-286

Quantity

Length	1pc	2pcs	5pcs
100 mm	USD 334.00	USD 401.00	USD 625.00
200 mm	USD 392.00	USD 523.00	USD 1025.00
500 mm	USD 594.00	USD 1003.00	
1000 mm	USD 994.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007100

Outside Diameter **1.1mm**
 Inside Diameter **0.75mm**
 Temper **As Drawn**

Wall Thickness **0.175mm**
 Purity **99.95 + %**

Size

Web Code
 189-874-294
 734-283-529
 785-449-749
 181-221-165

Quantity

Length	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 327.00	USD 390.00	USD 582.00	USD 962.00	USD 1721.00
200 mm	USD 381.00	USD 489.00	USD 940.00	USD 1677.00	
500 mm	USD 552.00	USD 918.00	USD 2013.00		
1000 mm	USD 909.00	USD 1633.00			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007130

Outside Diameter **1.64mm**
 Inside Diameter **1.09mm**
 Temper **As Drawn**

Wall Thickness **0.275mm**
 Purity **99.95 + %**

Size

Web Code
 946-630-194

Quantity

Length	5pcs	10pcs	20pcs
16.5 mm	USD 390.00	USD 525.00	USD 828.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007150

Outside Diameter **1.75mm**
 Inside Diameter **1.55mm**
 Temper **As Drawn**

Wall Thickness **0.1mm**
 Purity **99.95 + %**

Size

Web Code
 652-638-223
 579-779-712
 472-474-204
 059-285-095

Quantity

Length	1pc	2pcs	5pcs
100 mm	USD 325.00	USD 387.00	USD 572.00
200 mm	USD 379.00	USD 481.00	USD 919.00
500 mm	USD 541.00	USD 897.00	
1000 mm	USD 888.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Tube

AG007200

Outside Diameter **2.0mm**
 Inside Diameter **1.6mm**
 Temper **As Drawn**

Wall Thickness **0.2mm**
 Purity **99.95+%**

Size

Web Code
 410-629-790
 328-712-584
 089-067-990
 133-490-660

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 327.00	USD 390.00	USD 567.00	USD 926.00	USD 1643.00
200 mm	USD 380.00	USD 477.00	USD 903.00	USD 1597.00	
500 mm	USD 535.00	USD 880.00	USD 1910.00		
1000 mm	USD 871.00	USD 1551.00			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007220

Outside Diameter **2.8mm**
 Inside Diameter **2.5mm**
 Temper **As Drawn**

Wall Thickness **0.15mm**
 Purity **99.95+%**

Size

Web Code
 686-333-217
 791-652-113
 956-513-541
 564-191-172

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 313.00	USD 388.00	USD 547.00	USD 865.00
200 mm	USD 379.00	USD 482.00	USD 819.00	
500 mm	USD 510.00	USD 791.00		
1000 mm	USD 782.00	USD 1421.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007225

Outside Diameter **3.0mm**
 Inside Diameter **0.76mm**
 Temper **As Drawn**

Wall Thickness **1.12mm**
 Purity **99.95+%**

Size

Web Code
 997-371-398
 565-170-714
 827-560-193
 662-583-331

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 336.00	USD 420.00	USD 597.00	USD 1013.00
200 mm	USD 410.00	USD 526.00	USD 965.00	
500 mm	USD 559.00	USD 936.00		
1000 mm	USD 927.00			

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007230

Outside Diameter **3.5mm**
 Inside Diameter **3.04mm**
 Temper **As Drawn**

Wall Thickness **0.23mm**
 Purity **99.95+%**

Size

Web Code
 523-894-342
 486-795-874
 849-480-584
 185-065-949

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 284.00	USD 346.00	USD 480.00	USD 647.00
200 mm	USD 337.00	USD 421.00	USD 599.00	
500 mm	USD 442.00	USD 570.00		
1000 mm	USD 560.00	USD 943.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007250

Outside Diameter **4.65mm**
 Inside Diameter **4.15mm**
 Temper **As Drawn**

Wall Thickness **0.25mm**
 Purity **99.95+%**

Size

Web Code
 379-491-705
 436-470-048
 558-762-369
 845-295-584

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 297.00	USD 363.00	USD 507.00	USD 685.00
200 mm	USD 353.00	USD 443.00	USD 632.00	USD 1052.00
500 mm	USD 465.00	USD 601.00	USD 1198.00	
1000 mm	USD 590.00	USD 968.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007251

Outside Diameter **4.65mm**
 Inside Diameter **4.23mm**
 Temper **As Drawn**

Wall Thickness **0.21mm**
 Purity **99.95+%**

Size

Web Code
 524-466-966
 051-732-974
 866-454-142
 755-813-106

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 297.00	USD 363.00	USD 507.00	USD 685.00
200 mm	USD 353.00	USD 443.00	USD 632.00	USD 1052.00
500 mm	USD 465.00	USD 601.00	USD 1198.00	
1000 mm	USD 590.00	USD 968.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007260

Outside Diameter **5.0mm**
 Inside Diameter **4.5mm**
 Temper **As Drawn**

Wall Thickness **0.25mm**
 Purity **99.95+%**

Size

Web Code
 133-245-314
 655-666-608
 958-328-831
 791-106-045

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 297.00	USD 363.00	USD 506.00	USD 684.00
200 mm	USD 353.00	USD 443.00	USD 632.00	USD 1050.00
500 mm	USD 464.00	USD 600.00	USD 1196.00	
1000 mm	USD 590.00	USD 966.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

Metal – Silver

Silver

Ag



Tube

AG007300

Outside Diameter..... **6.0mm**
 Inside Diameter..... **4mm**
 Temper..... **As Drawn**

Wall Thickness..... **1.0mm**
 Purity..... **99.95 + %**

Size

Web Code

888-251-357
 031-414-701
 926-842-903
 855-367-044

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 372.00	USD 469.00	USD 729.00
200 mm	USD 441.00	USD 567.00	USD 1139.00
500 mm	USD 615.00	USD 1053.00	
1000 mm	USD 1025.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007325

Outside Diameter..... **7.0mm**
 Inside Diameter..... **6mm**
 Temper..... **As Drawn**

Wall Thickness..... **0.5mm**
 Purity..... **99.95 + %**

Size

Web Code

347-980-345
 511-661-995
 990-922-569

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 372.00	USD 469.00	USD 729.00
200 mm	USD 441.00	USD 567.00	USD 1139.00
500 mm	USD 615.00	USD 1053.00	

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007335

Outside Diameter..... **8.0mm**
 Inside Diameter..... **5.0mm**
 Temper..... **As Drawn**

Wall Thickness..... **1.5mm**
 Purity..... **99.95 + %**

Size

Web Code

216-953-390
 022-971-894
 515-384-847
 678-677-678

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 338.00	USD 436.00	USD 657.00
100 mm	USD 392.00	USD 566.00	USD 1050.00
200 mm	USD 522.00	USD 880.00	
500 mm	USD 993.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007400

Outside Diameter..... **8.0x5.0mm**
 Inside Diameter..... **6x3mm**
 Condition..... **Rectangular Section**

Wall Thickness..... **1mm**
 Purity..... **99.95 + %**

Size

Web Code

920-885-240

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 481.00	USD 628.00	USD 1243.00

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007350

Outside Diameter..... **10mm**
 Inside Diameter..... **8mm**
 Temper..... **As Drawn**

Wall Thickness..... **1.0mm**
 Purity..... **99.95 + %**

Size

Web Code

802-581-593
 779-258-199
 407-269-757
 908-723-329

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 336.00	USD 432.00	USD 642.00
100 mm	USD 389.00	USD 553.00	USD 1020.00
200 mm	USD 510.00	USD 855.00	
500 mm	USD 963.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.

AG007380

Outside Diameter..... **12.7mm**
 Inside Diameter..... **11.7mm**
 Temper..... **As Drawn**

Wall Thickness..... **0.5mm**
 Purity..... **99.95 + %**

Size

Web Code

706-318-948
 281-292-715
 398-829-765
 686-234-211

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 325.00	USD 417.00	USD 581.00
100 mm	USD 373.00	USD 505.00	USD 898.00
200 mm	USD 461.00	USD 758.00	
500 mm	USD 841.00		

Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.



Powder

AG006030

Max. Particle size..... **2micron**

Purity..... **99.97 + %**



Web Code

381-105-085
 638-127-416
 765-936-178
 742-020-503

Weight	Quantity	
	1 Pot	
10 g	USD 341.00	
25 g	USD 526.00	
50 g	USD 844.00	
100 g	USD 1481.00	

Typical Analysis : Cl <20, Cu 180, Fe <20, K <1, Na 30, Pb <20.

Shipping Restriction. Additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

Metal – Silver

Silver

Ag



Powder

AG006023

Max. Particle size **45micron** Purity..... **99.99%**
 Condition..... **Gas Atomized** Shape..... **Spherical**



	Quantity	
Web Code	Weight	1 Pot
191-970-079	10 g	USD 245.00
227-518-830	20 g	USD 316.00
659-708-162	50 g	USD 545.00
075-038-257	100 g	USD 887.00

Typical Analysis : Cu <25, Fe <10, Ni <5, Pb <10, Cl <5, sulphate <10, water <4000.
 May be suitable for additive manufacturing research and development purposes.
 Shipping Restriction. Additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.



Lump

AG006100

Max. Lump size **3mm** High Purity **99.999%**
 Condition..... **Shot**

	Quantity	
Web Code	Weight	1 Pot
948-528-732	10 g	USD 470.00
566-096-572	20 g	USD 697.00
762-074-405	50 g	USD 1419.00

Typical Analysis : Fe 1, Mg <1, Na <1.

AG006105

Max. Lump size **6mm** Purity..... **99.99%**
 Condition..... **Pellets**

	Quantity	
Web Code	Weight	1 Pot
564-774-698	20 g	USD 353.00
051-834-129	50 g	USD 488.00
630-752-366	100 g	USD 814.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.
 Nominally 3.5mm diameter x 6mm length pellets.

AG006110

Max. Lump size **10mm** Purity..... **99.99%**
 Condition..... **Shot**

	Quantity	
Web Code	Weight	1 Pot
414-045-084	20 g	USD 353.00
755-630-738	50 g	USD 488.00
453-845-096	100 g	USD 814.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.

AG006106

Max. Lump size **20mm** Purity..... **99.99%**
 Condition..... **Pellets**

	Quantity	
Web Code	Weight	1 Pot
583-118-626	50 g	USD 488.00
086-521-801	100 g	USD 814.00

Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.
 Nominally 9mm diameter x 15mm length pellets.



Sphere

AG006840

Diameter..... **0.5mm** Tolerance **±50µm**
 Grade..... **Precision Sphere**

	Quantity	
Web Code	Spheres	1 Pot
349-438-788	20 pcs	USD 201.00
487-204-836	50 pcs	USD 281.00
684-418-457	100 pcs	USD 397.00
546-178-899	200 pcs	USD 612.00

Typical Analysis : Not applicable

Metal – Silver

Silver

Ag



Single Crystal

AG002113	Orientation (100) Length..... 2mm Condition..... Unpolished	Diameter..... 12.7mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 780-150-678</p> <p>Typical Analysis : Not applicable</p>				
AG002118	Orientation (100) Length..... 5mm	Diameter..... 12mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 457-297-930</p> <p>Typical Analysis : Not applicable</p>				
AG002111	Orientation (100) Diameter..... 10mm Surface Finish Polished On One Side To 1 Micron	Thickness..... 2mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 614-209-918</p> <p>Typical Analysis : Not applicable</p>				
AG002110	Orientation (100) Diameter..... 10mm Condition..... Unpolished	Thickness..... 2mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 359-711-391</p> <p>Typical Analysis : Not applicable</p>				
AG002119	Orientation (100) Length..... 10mm	Diameter..... 12mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 054-033-497</p> <p>Typical Analysis : Not applicable</p>				
AG002114	Orientation (100) Diameter..... 12.7mm Condition..... Unpolished	Thickness..... 3mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 038-997-731</p> <p>Typical Analysis : Not applicable Although this crystal is normally held in stock ready for immediate shipment it is an example of crystals which may be grown to order with a delivery forecast of 20-30 weeks.</p>				
AG002120	Orientation (100) Length..... 25mm	Diameter..... 12mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 706-972-566</p> <p>Typical Analysis : Not applicable</p>				
AG002121	Orientation (100) Length..... 50mm	Diameter..... 12mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 731-481-481</p> <p>Typical Analysis : Not applicable</p>				
AG002151	Orientation (110) Diameter..... 10mm Surface Finish Polished On One Side To 1 Micron	Thickness..... 2mm Purity..... 99.999%	Quantity	1pc USD POA
<p>Web Code 533-530-878</p> <p>Typical Analysis : Not applicable</p>				

Metal – Silver

Silver

Ag



Single Crystal

AG002150

Orientation **(110)**
 Diameter **10mm**
 Condition **Unpolished**

Thickness **2mm**
 Purity **99.999%**

Quantity

Web Code
 824-162-695

1pc
 USD POA

Typical Analysis : Not applicable

AG002131

Orientation **(111)**
 Diameter **10mm**
 Surface Finish **Polished On One Side To 1 Micron**

Thickness **2mm**
 Purity **99.999%**

Quantity

Web Code
 778-195-855

1pc
 USD POA

Typical Analysis : Not applicable

AG002130

Orientation **(111)**
 Diameter **10mm**
 Condition **Unpolished**

Thickness **2mm**
 Purity **99.999%**

Quantity

Web Code
 846-980-729

1pc
 USD POA

Typical Analysis : Not applicable

AG002160

Orientation **(111)**
 Length **25mm**

Diameter **10mm**
 Purity **99.999%**

Quantity

Web Code
 851-173-059

1pc
 USD POA

Typical Analysis : Not applicable
 Although this crystal is normally held in stock ready for immediate shipment it is an example of crystals which may be grown to order with a delivery forecast of 20-30 weeks.

AG002141

Orientation **(220)**
 Diameter **10mm**
 Surface Finish **Polished On One Side To 1 Micron**

Thickness **2mm**
 Purity **99.999%**

Quantity

Web Code
 065-947-901

1pc
 USD POA

Typical Analysis : Not applicable

AG002140

Orientation **(220)**
 Diameter **10mm**
 Condition **Unpolished**

Thickness **2mm**
 Purity **99.999%**

Quantity

Web Code
 403-933-579

1pc
 USD POA

Typical Analysis : Not applicable

Metal – Silver

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