

# 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 Gold

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## Introduction

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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](http://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](http://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%
Wall thickness:	> 5mm	± 5%
	Polymer	± 10%
	Ceramic	± 10%
Length:	≤ 2mm	± 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-cm<sup>3</sup>.s<sup>-1</sup>.

### 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.

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## Order information

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### 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

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## Order information

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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

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## Order information

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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](http://www.goodfellow.com) or [www.goodfellowusa.com](http://www.goodfellowusa.com).

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## Company Details

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### 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**

Ermine Business Park  
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Registered in England and Wales no. 01188162  
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#### **Goodfellow Corporation**

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A Pennsylvania corporation  
EIN 23-2557381

#### **Goodfellow SARL**

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Registered in Lille : RCS : B 381 486 836  
Siren : 381486836  
Numéro de TVA Intracommunitaire :  
FR 06 381 486 836

#### **Goodfellow GmbH**

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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

## Conditions of Sale

- 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

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## Conditions of Sale

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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

**Gold**

**Au**

This metal has been known since prehistoric times. Gold is a soft metal with a characteristic yellow color. It is the most malleable and ductile of any element. It is unaffected by air, water, alkalis and acids, with the exception of "aqua regia", HNO<sub>3</sub>/HCl. The fact that it is chemically unreactive means that it is often found in its natural state. It is a good thermal and electrical conductor and has excellent reflective properties to both light and infrared. It has an abundance in the earth's crust of 0.0011 ppm.

Most of the metal is retained for use as bullion reserves, but some is used within the electronics and jewellery industries, where it is frequently alloyed with other elements to improve the mechanical properties of the metal (e.g. copper and silver). Other uses for the metal are as a heat reflecting coating for glass as well as as a decorative medium.

<b>Atomic Properties</b>		<b>Electrical Properties</b>			
Atomic number	79	Electrical resistivity @20C		2.20 μOhmcm	
Atomic radius - Goldschmidt	0.144 nm	Temperature coefficient @0-100C		0.0040 K <sup>-1</sup>	
Atomic weight	196.9665 amu	Thermal emf against Pt (cold 0C - hot 100C)		+0.74 mV	
Crystal structure	Face centred cubic	<b>Thermal Properties</b>			
Electronic structure	Xe 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>1</sup>	Coefficient of thermal expansion @0-100C		14.1 x10 <sup>-6</sup> K <sup>-1</sup>	
Photo-electric work function	4.8 eV	Latent heat of evaporation		1738 J g <sup>-1</sup>	
Thermal neutron absorption cross-section	98.8 Barns	Latent heat of fusion		64.9 J g <sup>-1</sup>	
Valences shown	1,3	Specific heat @25C		129 J K <sup>-1</sup> kg <sup>-1</sup>	
		Thermal conductivity @0-100C		318 W m <sup>-1</sup> K <sup>-1</sup>	
Natural isotope distribution	Mass No. %	<b>Mechanical Properties</b>			
	197 100	Material condition	Soft	Hard	Polycrystalline
Ionization potential	No. eV	Bulk modulus			171 GPa
	1 9.22	Hardness - Vickers	20-30	60	
	2 20.5	Poisson's ratio			0.42
		Tensile modulus			78.5 GPa
		Tensile strength	130	220	MPa
		Yield strength		205	MPa
<b>Physical Properties</b>					
Boiling point	3080 C				
Density @20C	19.30 g cm <sup>-3</sup>				
Melting point	1064.4 C				



**Microfoil**

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

**AU004100** Thickness ..... **0.01μm** Area density ..... **20.7μg.cm<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disk diam.</b>	<b>1 disk</b>	<b>2disks</b>	<b>5disks</b>	<b>10disks</b>
252-946-202	10 mm	USD 381.00	USD 517.00	USD 926.00	USD 1472.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks.

**AU004300** Thickness ..... **0.05μm** Area density ..... **101.3μg.cm<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disk diam.</b>	<b>1 disk</b>	<b>2disks</b>	<b>5disks</b>	<b>10disks</b>
469-909-744	10 mm	USD 354.00	USD 476.00	USD 845.00	USD 1336.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks.

**AU004500** Thickness ..... **0.1μm** Area density ..... **204.1μg.cm<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disk diam.</b>	<b>1 disk</b>	<b>2disks</b>	<b>5disks</b>	<b>10disks</b>
237-823-507	10 mm	USD 381.00	USD 518.00	USD 928.00	USD 1474.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks.

**AU004600** Thickness ..... **0.25μm** Area density ..... **483μg.cm<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disk diam.</b>	<b>1 disk</b>	<b>2disks</b>	<b>5disks</b>	<b>10disks</b>
760-097-541	10 mm	USD 423.00	USD 580.00	USD 1052.00	USD 1681.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks.

**AU004700** Thickness ..... **0.5μm** Area density ..... **966μg.cm<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disk diam.</b>	<b>1 disk</b>	<b>2disks</b>	<b>5disks</b>	<b>10disks</b>
385-989-809	10 mm	USD 451.00	USD 623.00	USD 1137.00	USD 1823.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks.

**Metal - Gold**

**Gold**

**Au**



**Microfoil**

**AU004800**

Thickness ..... **0.75µm**  
 Purity..... **99.99+%**

Area density ..... **1449µg.cm<sup>-2</sup>**  
 Support ..... **Permanent Mylar 3.5µm**

**Web Code**  
 877-860-403

Disk diam.	Quantity			
	1 disk	2disks	5disks	10disks
10 mm	USD 480.00	USD 665.00	USD 1223.00	USD 1966.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks.

**AU004850**

Thickness ..... **1.0µm**  
 Purity..... **99.99+%**

Area density ..... **1932µg.cm<sup>-2</sup>**  
 Support ..... **Permanent Mylar 3.5µm**

**Web Code**  
 192-291-155

Disk diam.	Quantity			
	1 disk	2disks	5disks	10disks
10 mm	USD 522.00	USD 729.00	USD 1351.00	USD 2179.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks.



**Microleaf**

These items are supplied on a temporary support for ease of handling and full removal instructions will be supplied with each delivery.

**AU004925**

Thickness ..... **0.25µm**  
 Purity..... **99.99+%**

Specific density ..... **483µg.cm<sup>-2</sup>**  
 Support ..... **Removable**

**Web Code**  
 122-312-230

Disk diam.	Quantity		
	1 disk	2disks	5disks
10 mm	USD 580.00	USD 816.00	USD 1524.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks. This foil has a limited shelf-life and should be used within 7-10 days of receipt. Returns will not be accepted unless we are notified within 14 days of our invoice date.

**AU004950**

Thickness ..... **0.5µm**  
 Purity..... **99.99+%**

Specific density ..... **966µg.cm<sup>-2</sup>**  
 Support ..... **Removable**

**Web Code**  
 470-781-293

Disk diam.	Quantity		
	1 disk	2disks	5disks
10 mm	USD 622.00	USD 879.00	USD 1651.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks. This foil has a limited shelf-life and should be used within 7-10 days of receipt. Returns will not be accepted unless we are notified within 14 days of our invoice date.

**AU004990**

Thickness ..... **1.0µm**  
 Purity..... **99.99+%**

Specific density ..... **1932µg.cm<sup>-2</sup>**  
 Support ..... **Removable**

**Web Code**  
 661-356-418

Disk diam.	Quantity		
	1 disk	2disks	5disks
10 mm	USD 728.00	USD 1039.00	USD 1969.00

Typical Analysis : Starting Material : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 This item is normally made to order for delivery within 4-5 weeks. This foil has a limited shelf-life and should be used within 7-10 days of receipt. Returns will not be accepted unless we are notified within 14 days of our invoice date.



**Foil**

**AU000060**

Thickness ..... **0.001mm**

Purity..... **99.9%**

**Sizes LT**  
**Web Code**  
 671-266-977

Size	Quantity	
	1pc	2pcs
25 x 25 mm	USD 564.00	USD 793.00

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000065**

Thickness ..... **0.0015mm**

Purity..... **99.9%**

**Sizes LT**  
**Web Code**  
 559-947-430  
 686-204-402

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 536.00	USD 704.00	USD 1049.00	USD 1433.00
50 x 50 mm	USD 911.00	USD 1234.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000070**

Thickness ..... **0.002mm**

Purity..... **99.9%**

**Sizes LT**  
**Web Code**  
 907-750-868  
 537-787-854

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 517.00	USD 677.00	USD 1007.00	USD 1392.00
50 x 50 mm	USD 872.00	USD 1180.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000080**

Thickness ..... **0.0025mm**

Purity..... **99.9%**

**Sizes LT**

**Web Code**

722-905-059  
 347-102-416  
 321-143-374

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 499.00	USD 651.00	USD 966.00	USD 1355.00
50 x 50 mm	USD 836.00	USD 1128.00		
100 x 100 mm	USD 1958.00			

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000090**

Thickness ..... **0.003mm**

Purity..... **99.9%**

**Sizes LT**

**Web Code**

903-054-346  
 867-914-270  
 120-403-003

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 481.00	USD 626.00	USD 926.00
50 x 50 mm	USD 801.00	USD 1078.00	
100 x 100 mm	USD 1901.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000100**

Thickness ..... **0.004mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

421-328-660  
 936-626-248  
 388-227-774  
 324-369-188

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 465.00	USD 603.00	USD 890.00	USD 1291.00
50 x 50 mm	USD 768.00	USD 1032.00	USD 2329.00	
100 x 100 mm	USD 1855.00	USD 3562.00		
150 x 150 mm	USD 3973.00			

**Sizes LT**

**Web Code**

767-738-754  
 046-703-339

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 581.00	USD 753.00	USD 1112.00	USD 1614.00
50 x 50 mm	USD 1152.00	USD 1548.00	USD 3494.00	

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000110**

Thickness ..... **0.005mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

638-061-379  
 113-749-165  
 038-835-962  
 110-400-956

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 460.00	USD 596.00	USD 879.00	USD 1257.00
50 x 50 mm	USD 758.00	USD 1018.00	USD 2261.00	
100 x 100 mm	USD 1801.00	USD 3454.00		
150 x 150 mm	USD 3851.00			

**Sizes LT**

**Web Code**

652-240-210  
 452-202-835

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 552.00	USD 715.00	USD 1054.00	USD 1508.00
50 x 50 mm	USD 986.00	USD 1323.00	USD 2940.00	

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000120**

Thickness ..... **0.006mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

588-979-739  
 597-767-343  
 769-097-973  
 596-932-931

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 444.00	USD 573.00	USD 843.00	USD 1230.00
50 x 50 mm	USD 727.00	USD 973.00	USD 2206.00	
100 x 100 mm	USD 1757.00	USD 3366.00		
150 x 150 mm	USD 3752.00			

**Sizes LT**

**Web Code**

694-372-781  
 933-237-745

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 533.00	USD 688.00	USD 1012.00	USD 1475.00
50 x 50 mm	USD 944.00	USD 1265.00	USD 2868.00	

**Disks**

**Web Code**

779-676-579  
 459-572-806  
 446-607-077  
 825-882-475  
 235-306-984  
 413-368-722

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 510.00	USD 622.00	USD 893.00
6 mm	USD 590.00	USD 736.00	USD 1077.00
8 mm	USD 671.00	USD 852.00	USD 1264.00
10 mm	USD 752.00	USD 969.00	USD 1454.00
15 mm	USD 952.00	USD 1253.00	USD 2563.00
25 mm	USD 1468.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000130**

Thickness ..... **0.007mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

329-180-705  
 806-323-023  
 951-582-994  
 475-087-784

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 430.00	USD 553.00	USD 811.00	USD 1211.00
50 x 50 mm	USD 698.00	USD 957.00	USD 2170.00	
100 x 100 mm	USD 1728.00	USD 3308.00		
150 x 150 mm	USD 3687.00			

**Sizes LT**

**Web Code**

949-700-765  
 490-414-919

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 472.00	USD 609.00	USD 893.00	USD 1333.00
50 x 50 mm	USD 873.00	USD 1196.00	USD 2712.00	

**Disks**

**Web Code**

689-282-270  
 160-276-919  
 034-623-754  
 327-967-263  
 995-905-855  
 488-234-542

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 502.00	USD 611.00	USD 875.00
6 mm	USD 578.00	USD 719.00	USD 1050.00
8 mm	USD 655.00	USD 829.00	USD 1228.00
10 mm	USD 732.00	USD 941.00	USD 1435.00
15 mm	USD 922.00	USD 1210.00	USD 2526.00
25 mm	USD 1448.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000140**

Thickness ..... **0.008mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

021-787-724  
 410-439-908  
 168-438-999  
 836-260-165

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 444.00	USD 573.00	USD 843.00	USD 1229.00
50 x 50 mm	USD 726.00	USD 973.00	USD 2205.00	
100 x 100 mm	USD 1756.00	USD 3363.00		
150 x 150 mm	USD 3750.00			

**Sizes LT**

**Web Code**

331-686-852  
 890-511-379

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 488.00	USD 631.00	USD 927.00	USD 1352.00
50 x 50 mm	USD 908.00	USD 1216.00	USD 2756.00	

**Disks**

**Web Code**

378-118-423  
 264-808-755  
 101-092-815  
 636-600-457  
 575-052-373  
 881-539-040

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 510.00	USD 622.00	USD 893.00
6 mm	USD 590.00	USD 736.00	USD 1076.00
8 mm	USD 671.00	USD 852.00	USD 1263.00
10 mm	USD 752.00	USD 969.00	USD 1453.00
15 mm	USD 952.00	USD 1252.00	USD 2562.00
25 mm	USD 1467.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000150**

Thickness ..... **0.009mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

391-473-299  
 270-458-730  
 432-751-919  
 056-180-447

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 428.00	USD 551.00	USD 808.00	USD 1199.00
50 x 50 mm	USD 695.00	USD 947.00	USD 2145.00	
100 x 100 mm	USD 1708.00	USD 3268.00		
150 x 150 mm	USD 3642.00			

**Sizes LT**

**Web Code**

025-273-652  
 010-368-206

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 471.00	USD 606.00	USD 888.00	USD 1319.00
50 x 50 mm	USD 868.00	USD 1184.00	USD 2682.00	

**Disks**

**Web Code**

875-566-964  
 445-871-765  
 733-972-125  
 746-513-060  
 314-129-991  
 266-238-855

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 501.00	USD 609.00	USD 873.00
6 mm	USD 576.00	USD 717.00	USD 1046.00
8 mm	USD 653.00	USD 827.00	USD 1223.00
10 mm	USD 730.00	USD 937.00	USD 1424.00
15 mm	USD 918.00	USD 1205.00	USD 2501.00
25 mm	USD 1434.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000310**

Thickness ..... **0.01mm**

Coil width ..... **.35mm**

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

Temper..... **As Rolled**

**Coil**

**Web Code**

722-419-055  
 517-254-488  
 164-603-000  
 158-508-290  
 349-268-466

Width **0.35mm**

Length	Quantity	
	1 Reel	
0.1 m	USD 267.00	
0.2 m	USD 294.00	
0.5 m	USD 348.00	
1 m	USD 420.00	
2 m	USD 640.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000160**

Thickness ..... **0.01mm**

Purity ..... **99.9%**

**NLT Sizes**

**Web Code**

404-886-444  
 885-899-188  
 876-167-728

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 409.00	USD 524.00	USD 766.00
50 x 50 mm	USD 657.00	USD 904.00	
100 x 100 mm	USD 1622.00		

**Sizes LT**

**Web Code**

042-059-006  
 267-345-854

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 450.00	USD 577.00	USD 842.00
50 x 50 mm	USD 821.00	USD 1130.00	

**Disks**

**Web Code**

273-209-476  
 151-177-579  
 897-188-455  
 148-554-634  
 569-333-105

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 490.00	USD 594.00	USD 849.00
6 mm	USD 561.00	USD 695.00	USD 1011.00
8 mm	USD 632.00	USD 797.00	USD 1175.00
10 mm	USD 703.00	USD 899.00	USD 1375.00
15 mm	USD 878.00	USD 1148.00	

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000328**

Thickness ..... **0.0125mm**

Coil width ..... **0.0762mm**

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

Temper ..... **As Rolled**

**Coil**

Width **0.0762mm**

**Quantity**

**Web Code**

299-370-111  
 505-925-622  
 885-205-868  
 752-520-346  
 536-239-194

Length	1 Reel
	0.1 m
0.2 m	USD 255.00
0.5 m	USD 321.00
1 m	USD 402.00
2 m	USD 524.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000329**

Thickness ..... **0.0125mm**

Coil width ..... **.127mm**

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

Temper ..... **As Rolled**

**Coil**

Width **0.127mm**

**Quantity**

**Web Code**

559-016-395  
 027-919-755  
 547-809-699  
 715-970-987  
 935-479-304

Length	1 Reel
	0.1 m
0.2 m	USD 283.00
0.5 m	USD 366.00
1 m	USD 465.00
2 m	USD 615.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000330**

Thickness ..... **0.0125mm**

Coil width ..... **.38mm**

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

Temper ..... **As Rolled**

**Coil**

Width **0.38mm**

**Quantity**

**Web Code**

860-485-907  
 811-326-783  
 053-227-099  
 408-305-998  
 425-947-905

Length	1 Reel
	0.1 m
0.2 m	USD 314.00
0.5 m	USD 415.00
1 m	USD 535.00
2 m	USD 713.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000331**

Thickness ..... **0.0125mm**

Coil width ..... **.508mm**

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

Temper ..... **As Rolled**

**Coil**

Width **0.508mm**

**Quantity**

**Web Code**

764-689-005  
 086-424-159  
 622-184-692  
 916-712-171  
 929-542-235

Length	1 Reel
	0.1 m
0.2 m	USD 339.00
0.5 m	USD 454.00
1 m	USD 589.00
2 m	USD 790.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000170**

Thickness ..... **0.0125mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

539-430-264  
 971-041-683  
 610-852-796  
 437-029-387

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 376.00	USD 478.00	USD 692.00	USD 1063.00
50 x 50 mm	USD 591.00	USD 838.00	USD 1873.00	
100 x 100 mm	USD 1490.00	USD 2832.00		
150 x 150 mm	USD 3152.00			

**Sizes LT**

**Web Code**

424-266-592  
 125-522-071  
 643-704-716

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 414.00	USD 525.00	USD 761.00	USD 1169.00
50 x 50 mm	USD 650.00	USD 922.00	USD 2060.00	
100 x 100 mm	USD 1714.00	USD 3257.00		

**Disks**

**Web Code**

732-910-687  
 613-833-152  
 729-139-458  
 142-434-977  
 804-367-207  
 545-900-929

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 472.00	USD 568.00	USD 807.00
6 mm	USD 533.00	USD 655.00	USD 948.00
8 mm	USD 595.00	USD 744.00	USD 1091.00
10 mm	USD 657.00	USD 833.00	USD 1299.00
15 mm	USD 809.00	USD 1073.00	USD 2224.00
25 mm	USD 1281.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000180**

Thickness ..... **0.015mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

876-004-053  
 537-789-329  
 967-586-783  
 245-869-048

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 407.00	USD 521.00	USD 761.00	USD 1130.00
50 x 50 mm	USD 653.00	USD 892.00	USD 2007.00	
100 x 100 mm	USD 1598.00	USD 3047.00		
150 x 150 mm	USD 3393.00			

**Sizes LT**

**Web Code**

774-434-654  
 498-961-188  
 376-219-648

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 448.00	USD 573.00	USD 837.00	USD 1243.00
50 x 50 mm	USD 718.00	USD 981.00	USD 2207.00	
100 x 100 mm	USD 1997.00	USD 3808.00		

**Disks**

**Web Code**

898-127-943  
 265-990-787  
 248-837-790  
 104-724-868  
 090-608-927  
 326-117-997

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 489.00	USD 593.00	USD 846.00
6 mm	USD 559.00	USD 692.00	USD 1006.00
8 mm	USD 629.00	USD 793.00	USD 1169.00
10 mm	USD 700.00	USD 895.00	USD 1360.00
15 mm	USD 874.00	USD 1142.00	USD 2360.00
25 mm	USD 1356.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000190**

Thickness ..... **0.02mm**

Purity..... **99.9%**

**NLT Sizes**

**Web Code**

610-260-383  
 225-267-598  
 831-773-324

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 375.00	USD 477.00	USD 690.00
50 x 50 mm	USD 590.00	USD 833.00	
100 x 100 mm	USD 1481.00		

**Sizes LT**

**Web Code**

383-241-013  
 564-291-529  
 795-088-418

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 413.00	USD 524.00	USD 759.00
50 x 50 mm	USD 648.00	USD 917.00	
100 x 100 mm	USD 1851.00		

**Disks**

**Web Code**

403-173-190  
 396-645-035  
 580-627-754  
 578-466-286  
 308-278-422

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 471.00	USD 568.00	USD 806.00
6 mm	USD 532.00	USD 655.00	USD 946.00
8 mm	USD 594.00	USD 742.00	USD 1089.00
10 mm	USD 656.00	USD 831.00	USD 1293.00
15 mm	USD 807.00	USD 1068.00	

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU000339**

Thickness ..... **0.025mm**

Coil width ..... **0.5mm**

Purity..... **99.99%**

Temper..... **As Rolled**

**Coil**

**Web Code**

596-490-927  
 530-476-502  
 298-447-824  
 528-716-210  
 993-219-252

Length	Quantity
	1 Reel
0.1 m	USD 209.00
0.2 m	USD 237.00
0.5 m	USD 292.00
1 m	USD 396.00
2 m	USD 649.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**Metal - Gold**



**Gold**  
**Au**



**Foil**

**AU000342**

Thickness ..... **0.025mm**  
 Purity..... **99.95%**

Coil width ..... **2mm**  
 Temper..... **As Rolled**

**Coil**

**Web Code**  
 621-833-922  
 791-630-510  
 179-048-542  
 689-775-916

**Width 2mm**

Length	1 Reel
0.05 m	USD 212.00
0.1 m	USD 244.00
0.2 m	USD 289.00
0.5 m	USD 471.00

**Quantity**

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000340**

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

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

**NLT Sizes**

**Web Code**  
 584-905-457  
 809-444-657  
 825-097-122

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 421.00	USD 549.00	USD 810.00
50 x 50 mm	USD 712.00	USD 960.00	
100 x 100 mm	USD 1426.00		

**Sizes LT**

**Web Code**  
 028-124-967  
 724-407-594  
 128-071-432

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 463.00	USD 604.00	USD 891.00
50 x 50 mm	USD 783.00	USD 1056.00	
100 x 100 mm	USD 1712.00		

**Disks**

**Web Code**  
 007-623-192  
 952-899-358  
 112-417-848  
 052-225-402  
 528-183-072

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 501.00	USD 642.00	USD 991.00
6 mm	USD 592.00	USD 772.00	USD 1202.00
8 mm	USD 684.00	USD 904.00	USD 1417.00
10 mm	USD 777.00	USD 1039.00	USD 1638.00
15 mm	USD 1002.00	USD 1360.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000341**

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

High Purity ..... **99.99+ %**

**NLT Sizes**

**Web Code**  
 946-686-761  
 030-468-784  
 864-391-787

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 472.00	USD 621.00	USD 924.00
50 x 50 mm	USD 814.00	USD 1105.00	
100 x 100 mm	USD 1921.00		

**Sizes LT**

**Web Code**  
 299-271-009  
 481-264-835  
 380-901-903

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 519.00	USD 683.00	USD 1016.00
50 x 50 mm	USD 895.00	USD 1215.00	
100 x 100 mm	USD 2305.00		

**Disks**

**Web Code**  
 187-126-611  
 390-826-752  
 853-346-876  
 668-355-254  
 544-408-278

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 533.00	USD 687.00	USD 1064.00
6 mm	USD 640.00	USD 841.00	USD 1315.00
8 mm	USD 749.00	USD 998.00	USD 1572.00
10 mm	USD 859.00	USD 1158.00	USD 1836.00
15 mm	USD 1125.00	USD 1538.00	

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU000343**

Thickness ..... **0.05mm**  
 Purity..... **99.95%**

Coil width ..... **4mm**  
 Temper..... **As Rolled**

**Coil**

**Web Code**  
 004-049-526  
 481-751-283  
 282-148-274  
 471-118-462

**Width 4mm**

Length	1 Reel
0.05 m	USD 243.00
0.1 m	USD 288.00
0.2 m	USD 401.00
0.5 m	USD 800.00

**Quantity**

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000344**

Thickness ..... **0.05mm**  
 Condition..... **Central 0.06mm Diameter Hole**

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

**Disks**

**Web Code**  
 286-910-407

Diameter	Quantity
8 mm	1 disks USD POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000345**

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

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

**Size**

**Web Code**  
 375-941-545  
 992-698-698  
 087-333-710

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 421.00	USD 548.00	POA
50 x 50 mm	USD 749.00	POA	
100 x 100 mm	POA		

**Disks**

**Web Code**  
 916-723-425  
 590-437-423  
 804-682-646  
 585-329-460  
 166-182-825

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 502.00	USD 644.00	USD 996.00
6 mm	USD 594.00	USD 776.00	USD 1213.00
8 mm	USD 688.00	USD 912.00	USD 1598.00
10 mm	USD 783.00	USD 1051.00	USD 2167.00
15 mm	USD 1016.00	USD 1777.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000347**

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

High Purity ..... **99.99%**

**Size**

**Web Code**  
 008-856-079  
 420-687-743  
 700-505-180

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 465.00	USD 582.00	POA
50 x 50 mm	USD 853.00	POA	
100 x 100 mm	POA		

**Disks**

**Web Code**  
 028-718-953  
 589-868-156  
 733-514-697  
 689-337-287  
 167-161-351

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 516.00	USD 622.00	USD 854.00
6 mm	USD 601.00	USD 743.00	USD 1061.00
8 mm	USD 686.00	USD 866.00	USD 1517.00
10 mm	USD 773.00	USD 1035.00	USD 2103.00
15 mm	USD 1074.00	USD 1836.00	

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU000349**

Thickness ..... **0.10mm**  
 Temper ..... **As Rolled**

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

**Size**

**Web Code**  
 617-904-635  
 885-071-431  
 023-153-373

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 427.00	USD 592.00	POA
50 x 50 mm	USD 1039.00	POA	
100 x 100 mm	POA		

**Disks**

**Web Code**  
 395-337-008  
 381-970-202  
 684-981-951  
 846-776-313  
 555-636-991

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 506.00	USD 650.00	USD 1005.00
6 mm	USD 600.00	USD 785.00	USD 1408.00
8 mm	USD 696.00	USD 972.00	USD 2047.00
10 mm	USD 793.00	USD 1301.00	USD 2869.00
15 mm	USD 1331.00	USD 2406.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000348**

Thickness ..... **0.10mm**  
 Temper ..... **As Rolled**

High Purity ..... **99.99%**

**Size**

**Web Code**  
 895-711-782  
 963-974-088  
 496-750-452

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 511.00	USD 847.00	POA
50 x 50 mm	USD 1493.00	POA	
100 x 100 mm	POA		

**Disks**

**Web Code**  
 093-801-898  
 725-230-659  
 653-825-981  
 728-240-035  
 030-005-642

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 521.00	USD 635.00	USD 1090.00
6 mm	USD 604.00	USD 888.00	USD 1741.00
8 mm	USD 786.00	USD 1252.00	USD 2651.00
10 mm	USD 1020.00	USD 1721.00	USD 3822.00
15 mm	USD 1813.00	USD 3306.00	

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU000360**

Thickness ..... **0.10mm**  
 Temper ..... **As Rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**  
 973-864-745  
 959-716-634

Size	Quantity	
	1pc	2pcs
25 x 25 mm	USD 617.00	USD 1057.00
50 x 50 mm	USD 1914.00	

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000351**

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

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

**Size**

**Web Code**  
 134-953-491  
 157-112-419  
 921-489-472

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 459.00	USD 742.00	POA
50 x 50 mm	USD 1284.00	POA	
100 x 100 mm	POA		

**Disks**

**Web Code**  
 446-053-911  
 973-537-268  
 029-541-456  
 179-119-642  
 289-555-715

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 528.00	USD 646.00	USD 1012.00
6 mm	USD 610.00	USD 818.00	USD 1564.00
8 mm	USD 723.00	USD 1127.00	USD 2337.00
10 mm	USD 922.00	USD 1524.00	USD 3331.00
15 mm	USD 1590.00	USD 2860.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000350**

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

High Purity ..... **99.99+%**

**Size**

**Web Code**  
 838-904-027  
 863-005-244  
 875-662-153

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 641.00	USD 1106.00	POA
50 x 50 mm	USD 2011.00	POA	
100 x 100 mm	POA		

**Disks**

**Web Code**  
 457-762-908  
 220-362-724  
 545-344-508  
 168-065-731  
 008-220-796

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 649.00	USD 821.00	USD 1330.00
6 mm	USD 797.00	USD 1104.00	USD 2280.00
8 mm	USD 978.00	USD 1636.00	USD 3610.00
10 mm	USD 1320.00	USD 2320.00	USD 5319.00
15 mm	USD 2441.00	USD 4563.00	

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU000365**

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

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

**Size**

**Web Code**  
 551-349-072  
 379-224-073  
 401-267-224

Size	Quantity		
	1pc	2pcs	5pcs
15 x 15 mm	USD 370.00	USD 473.00	POA
30 x 30 mm	USD 742.00	POA	
60 x 60 mm	POA		

**Disks**

**Web Code**  
 154-948-909  
 683-961-146  
 477-793-854  
 850-293-965

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 525.00	USD 668.00	USD 1088.00
6 mm	USD 655.00	USD 929.00	USD 1944.00
8 mm	USD 824.00	USD 1408.00	
10 mm	USD 1132.00		

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000371**

Thickness ..... **0.250mm**  
 Temper ..... **As Rolled**

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

**Size**

**Web Code**  
 186-747-361  
 842-791-015  
 348-887-425  
 610-925-252

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
10 x 10 mm	USD 309.00	USD 386.00	USD 567.00	POA
25 x 25 mm	USD 662.00	USD 1196.00	POA	
50 x 50 mm	POA			
100 x 100 mm	POA			

**Disks**

**Web Code**  
 365-655-444  
 706-937-247  
 367-153-610  
 894-200-031  
 775-012-463

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 556.00	USD 712.00	USD 1259.00
6 mm	USD 701.00	USD 1083.00	USD 2329.00
8 mm	USD 961.00	USD 1682.00	USD 3827.00
10 mm	USD 1346.00	USD 2452.00	USD 5753.00
15 mm	USD 2638.00	USD 5036.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000370**

Thickness ..... **0.250mm**  
 Temper ..... **As Rolled**

High Purity ..... **99.99%**

**Size**

**Web Code**  
 871-570-197  
 948-010-029  
 449-856-847  
 232-102-996

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
10 x 10 mm	USD 318.00	USD 408.00	USD 782.00	USD 1404.00	POA
12.5 x 12.5 mm	USD 354.00	USD 534.00	USD 1097.00	POA	POA
25 x 25 mm	USD 872.00	USD 1585.00	POA		
50 x 50 mm	POA				

**Disks**

**Web Code**  
 608-788-741  
 098-596-961  
 324-614-882  
 576-855-405

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 657.00	USD 1023.00	USD 1871.00
6 mm	USD 929.00	USD 1581.00	
8 mm	USD 1320.00	USD 2362.00	
10 mm	USD 1823.00		

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU000372**

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

High Purity ..... **99.999%**

**Size**

**Web Code**  
 039-578-790  
 399-879-165  
 947-964-653  
 868-725-061

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
10 x 10 mm	USD 386.00	USD 479.00	USD 885.00	POA
25 x 25 mm	USD 1019.00	USD 1862.00	POA	
50 x 50 mm	POA			
100 x 100 mm	POA			

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU000381**

Thickness ..... **0.50mm**  
 Temper ..... **As Rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**  
 562-434-609  
 379-698-249  
 392-039-398

Size	Quantity
	1pc
10 x 10 mm	POA
25 x 25 mm	POA
50 x 50 mm	POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU000380**

Thickness ..... **0.50mm**  
 Temper ..... **As Rolled**

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

**Size**

**Web Code**  
 286-378-152  
 568-761-692  
 037-758-225  
 991-195-374  
 814-477-780

Size	Quantity
	1pc
10 x 10 mm	POA
25 x 25 mm	POA
40 x 50 mm	POA
40 x 60 mm	POA
100 x 100 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000385**

Thickness ..... **0.75mm**  
 Temper ..... **As Rolled**

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

**Size**

**Web Code**  
 910-070-638  
 879-884-265  
 069-891-367

Size	Quantity
	1pc
10 x 10 mm	POA
25 x 25 mm	POA
50 x 50 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000391**

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

Purity ..... **99.95%**  
 Surface Finish ..... **Polished On Both Sides**

**Disks**

**Web Code**  
 423-075-019

Diameter	Quantity
	1 disks
12 mm	USD POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000392**

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

Purity ..... **99.95%**  
 Surface Finish ..... **Polished On Both Sides**

**Size**

**Web Code**  
 048-264-932

Size	Quantity
	1pc
10 x 10 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Foil**

**AU000390**

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

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

**Size**

**Web Code**  
 541-542-898  
 900-602-303  
 575-294-029

**Size**  
 10 x 10 mm  
 25 x 25 mm  
 50 x 50 mm

**Quantity**

**1pc**  
 POA  
 POA  
 POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000393**

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

High Purity ..... **99.999%**

**Size**

**Web Code**  
 883-489-553  
 809-707-239  
 364-669-605

**Size**  
 10 x 10 mm  
 25 x 25 mm  
 50 x 50 mm

**Quantity**

**1pc**  
 POA  
 POA  
 POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU000395**

Thickness ..... **1.5mm**  
 Temper ..... **As Rolled**

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

**Size**

**Web Code**  
 452-764-083  
 963-875-208  
 350-006-375

**Size**  
 10 x 10 mm  
 25 x 25 mm  
 50 x 50 mm

**Quantity**

**1pc**  
 POA  
 POA  
 POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000396**

Thickness ..... **1.5mm**  
 Temper ..... **As Rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**  
 040-882-687  
 955-485-404  
 543-580-275

**Size**  
 10 x 10 mm  
 25 x 25 mm  
 50 x 50 mm

**Quantity**

**1pc**  
 POA  
 POA  
 POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU000400**

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

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

**Size**

**Web Code**  
 582-025-462  
 911-758-561  
 969-819-022

**Size**  
 10 x 10 mm  
 25 x 25 mm  
 50 x 50 mm

**Quantity**

**1pc**  
 POA  
 POA  
 POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU000401**

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

High Purity ..... **99.999%**

**Size**

**Web Code**  
 311-900-264  
 400-160-122  
 064-301-933

**Size**  
 10 x 10 mm  
 25 x 25 mm  
 50 x 50 mm

**Quantity**

**1pc**  
 POA  
 POA  
 POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.



**Sputtering Target**

**AU009100**

Thickness ..... **0.1mm**  
 Purity ..... **99.95%**

Tolerance ..... **15%**

**Size**

**Web Code**  
 678-449-863  
 767-152-206  
 269-620-278  
 631-109-991

**Disk diam.**  
 25 mm  
 50 mm  
 54 mm  
 57 mm

**Quantity**

**1disk**  
 POA  
 POA  
 POA  
 POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**Metal – Gold**

**Gold**

**Au**



**Sputtering Target**

**AU009202**

Thickness ..... **0.2mm** Tolerance ..... **15%**  
 Purity ..... **99.95%**

**Size**

**Web Code**  
 909-757-633  
 700-195-918  
 049-632-480  
 145-707-263

Quantity	
Disk diam.	1disk
25 mm	POA
50 mm	POA
54 mm	POA
57 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**AU009203**

Thickness ..... **0.5mm** Tolerance ..... **15%**  
 Purity ..... **99.95%**

**Size**

**Web Code**  
 448-157-218  
 678-827-311  
 935-007-932  
 672-755-791

Quantity	
Disk diam.	1disk
25 mm	POA
50 mm	POA
54 mm	POA
57 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**AU009205**

Thickness ..... **1.0mm** High Purity ..... **99.999%**

**Size**

**Web Code**  
 369-712-979  
 627-540-266

Quantity	
Disk diam.	1disk
10 mm	POA
25.4 mm	POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**AU009206**

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

**Size**

**Web Code**  
 611-718-263  
 484-695-179  
 966-679-037  
 300-208-255

Quantity	
Disk diam.	1disk
25 mm	POA
50 mm	POA
54 mm	POA
57 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**AU009204**

Thickness ..... **2.0mm** Purity ..... **99.95%**

**Size**

**Web Code**  
 653-414-251  
 336-338-952

Quantity	
Disk diam.	1disk
25 mm	POA
50 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**AU009207**

Thickness ..... **2.0mm** High Purity ..... **99.999%**

**Size**

**Web Code**  
 928-216-201  
 345-950-847

Quantity	
Disk diam.	1disk
25.4 mm	POA
50.8 mm	POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**AU009208**

Thickness ..... **3mm** Purity ..... **99.95%**

**Size**

**Web Code**  
 567-037-208  
 802-532-440

Quantity	
Disk diam.	1disk
25 mm	POA
50 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**AU009209**

Thickness ..... **3mm** High Purity ..... **99.999%**

**Size**

**Web Code**  
 623-091-562  
 324-115-391

Quantity	
Disk diam.	1disk
25 mm	POA
50 mm	POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

**Metal – Gold**

**Gold**

**Au**



**Mesh**

**AU008721** Nominal Aperture..... **0.011mm** Thickness..... **0.004mm**  
 Wire diameter..... **0.005mm** Wires/inch..... **1500**  
 Open area..... **44%** Purity..... **99.9%**  
 Type..... **Electro Formed Mesh**

Size Web Code	Size	Quantity	
		1pc	2pcs
437-659-372	10 x 10 mm	USD 323.00	USD 416.00
899-125-481	20 x 20 mm	USD 497.00	USD 662.00
804-703-028	50 x 50 mm	USD 1090.00	

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU008725** Nominal Aperture..... **0.04mm** Thickness..... **0.006mm**  
 Wire diameter..... **0.011mm** Wires/inch..... **500**  
 Open area..... **60%** Purity..... **99.9%**  
 Type..... **Electro Formed Mesh**

Size Web Code	Size	Quantity		
		1pc	2pcs	5pcs
729-929-971	10 x 10 mm	USD 288.00	USD 366.00	USD 526.00
525-067-831	25 x 25 mm	USD 496.00	USD 661.00	
290-503-215	50 x 50 mm	USD 1020.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU008730** Nominal Aperture..... **0.064mm** Thickness..... **0.004mm**  
 Wire diameter..... **0.0125mm** Wires/inch..... **333**  
 Open area..... **70%** Purity..... **99.9%**  
 Type..... **Electro Formed Mesh**

Size Web Code	Size	Quantity		
		1pc	2pcs	5pcs
616-585-237	10 x 10 mm	USD 214.00	USD 258.00	USD 345.00
142-974-300	25 x 25 mm	USD 331.00	USD 424.00	
579-165-476	50 x 50 mm	USD 596.00		

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.

**AU008710** Nominal Aperture..... **0.25mm** Wire diameter..... **0.06mm**  
 Wires/inch..... **82x82** Open area..... **65%**  
 Purity..... **99.9%** Type..... **Plain Weave Mesh**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
568-935-625	10 x 10 mm	USD 288.00	USD 352.00	USD 487.00	USD 672.00	USD 1067.00
011-784-569	20 x 20 mm	USD 354.00	USD 445.00	USD 694.00	USD 1172.00	
473-069-099	50 x 50 mm	USD 665.00	USD 1144.00			
133-626-904	100 x 100 mm	USD 1991.00				

Typical Analysis : Ag 300, Al 1, B 1, Bi 2, Ca 4, Cd 4, Cr 5, Cu 500, Fe 2, K 15, Mg 1, Mn 1, Na 1, Ni 100, Pb 15, Pd 7, Sb 7, Si 2, Sn 5, V 2, Zr 10.



**Wire**

**AU005110** Diameter..... **0.01mm** Purity..... **99.99+ %**  
 Temper..... **Hard**

Length Web Code	Length	Quantity
		1 Reel
052-270-517	1 m	USD 471.00
726-959-758	5 m	USD 815.00
869-967-279	10 m	USD 1092.00
745-904-768	20 m	USD 1422.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.  
 1m, 5m, 10m and 20m reels only.

**AU005115** Diameter..... **0.0125mm** Purity..... **99.99+ %**  
 Temper..... **Hard**

Length Web Code	Length	Quantity
		1 Reel
239-706-076	1 m	USD 471.00
318-610-760	5 m	USD 815.00
276-553-646	10 m	USD 1092.00
656-033-142	20 m	USD 1422.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.  
 1m, 5m and 10m reels only.

**Metal – Gold**

**Gold**

**Au**



**Wire**

**AU005118**

Diameter ..... **0.0175mm**  
 Temper ..... **Annealed**

Purity ..... **99.99+%**

**Length**

**Web Code**  
 827-001-426  
 258-902-287  
 126-413-079  
 692-379-952

Quantity	
Length	1 Reel
1 m	USD 387.00
5 m	USD 627.00
10 m	USD 826.00
20 m	USD 1039.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.

**AU005120**

Diameter ..... **0.025mm**  
 Temper ..... **Hard**

Purity ..... **99.99+%**

**Length**

**Web Code**  
 238-089-224  
 145-229-036  
 153-635-479  
 204-435-425  
 403-467-045  
 013-643-527

Quantity	
Length	1 Reel
1 m	USD 212.00
5 m	USD 308.00
10 m	USD 351.00
20 m	USD 414.00
50 m	USD 545.00
100 m	USD 763.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.

**AU005121**

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

Purity ..... **99.99+%**

**Length**

**Web Code**  
 352-911-455  
 622-281-780  
 739-110-568  
 797-996-187  
 485-823-112  
 469-690-710

Quantity	
Length	1 Reel
1 m	USD 212.00
5 m	USD 308.00
10 m	USD 351.00
20 m	USD 414.00
50 m	USD 545.00
100 m	USD 763.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.

**AU005125**

Diameter ..... **0.05mm**  
 Temper ..... **Hard**

Purity ..... **99.99+%**

**Length**

**Web Code**  
 671-690-436  
 346-200-166  
 051-047-078  
 303-108-501

Quantity	
Length	1 Reel
1 m	USD 360.00
5 m	USD 574.00
10 m	USD 734.00
20 m	USD 962.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.

**AU005126**

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

Purity ..... **99.99+%**

**Length**

**Web Code**  
 800-913-238  
 966-082-456  
 845-109-071  
 815-294-545

Quantity	
Length	1 Reel
1 m	USD 360.00
5 m	USD 574.00
10 m	USD 734.00
20 m	USD 962.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.

**AU005130**

Diameter ..... **0.06mm**  
 Temper ..... **Hard**

Purity ..... **99.99+%**

**Length**

**Web Code**  
 554-430-451  
 303-802-399  
 975-291-816  
 959-561-945

Quantity	
Length	1 Reel
1 m	USD 360.00
5 m	USD 574.00
10 m	USD 734.00
20 m	USD 962.00

Typical Analysis : Ag <50, Ca <3, Cu <20, Fe <20, Mg <20, Pb <1, Pd <10, Pt <10, Si <1.

**AU005132**

Diameter ..... **0.075mm**  
 Temper ..... **Annealed**

High Purity ..... **99.99%**

**Length**

**Web Code**  
 162-238-801  
 861-143-704  
 955-676-865  
 755-220-233  
 891-894-769  
 367-633-423

Quantity	
Length	1 Reel
0.2 m	USD 210.00
0.5 m	USD 254.00
1 m	USD 305.00
2 m	USD 382.00
5 m	USD 547.00
10 m	USD 871.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**Metal – Gold**



**Gold**

**Au**



**Wire**

**AU005133** Diameter ..... **0.10mm** High Purity ..... **99.99%**  
 Temper ..... **Annealed**

<b>Length</b>		<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>	
323-162-295	0.2 m	USD	213.00
561-044-557	0.5 m	USD	258.00
588-091-564	1 m	USD	311.00
542-238-712	2 m	USD	390.00
092-874-443	5 m	USD	560.00
879-829-364	10 m	USD	883.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU005135** Diameter ..... **0.125mm** High Purity ..... **99.99+%**  
 Temper ..... **Hard**

<b>Length</b>		<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>	
935-173-863	0.2 m	USD	214.00
896-734-638	0.5 m	USD	260.00
091-825-945	1 m	USD	313.00
478-243-863	2 m	USD	394.00
780-486-255	5 m	USD	566.00
560-781-527	10 m	USD	906.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU005137** Diameter ..... **0.20mm** High Purity ..... **99.99%**  
 Temper ..... **Annealed**

<b>Length</b>		<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>	
968-540-132	0.1 m	USD	186.00
260-350-512	0.2 m	USD	203.00
281-954-985	0.5 m	USD	240.00
783-174-005	1 m	USD	293.00
920-862-412	2 m	USD	441.00
615-683-656	5 m	USD	875.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU005140** Diameter ..... **0.25mm** High Purity ..... **99.99+%**  
 Temper ..... **Hard**

<b>Length</b>		<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>	
097-691-461	0.1 m	USD	196.00
211-425-610	0.2 m	USD	218.00
428-204-668	0.5 m	USD	263.00
525-575-541	1 m	USD	371.00
696-946-887	2 m	USD	598.00
118-361-999	5 m	USD	1268.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU005145** Diameter ..... **0.33mm** Purity ..... **99.95%**  
 Temper ..... **As Drawn**

<b>Length</b>		<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>	
155-315-773	0.1 m	USD	203.00
131-965-728	0.2 m	USD	229.00
368-916-361	0.5 m	USD	292.00
877-948-692	1 m	USD	440.00
187-087-905	2 m	USD	736.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU005148** Diameter ..... **0.40mm** Purity ..... **99.95%**  
 Temper ..... **As Drawn**

<b>Length</b>		<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>	
578-069-728	0.1 m	USD	214.00
624-652-504	0.2 m	USD	244.00
809-111-552	0.5 m	USD	351.00
654-514-166	1 m	USD	557.00
605-006-743	2 m	USD	969.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Wire**

**AU005150**

Diameter ..... **0.5mm**  
 Temper ..... **Hard**

High Purity ..... **99.99+%**

**Length**

**Web Code**  
 099-706-126  
 405-247-023  
 655-880-463  
 985-061-544  
 132-691-026

**Quantity**

**Length 1 Reel**  
 0.05 m USD 269.00  
 0.1 m USD 336.00  
 0.2 m USD 432.00  
 0.5 m USD 628.00  
 1 m USD 1148.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU005151**

Diameter ..... **0.5mm**  
 Temper ..... **Hard**

High Purity ..... **99.999%**

**Length**

**Web Code**  
 447-301-543  
 508-589-614  
 048-448-974  
 187-028-843  
 706-651-052

**Quantity**

**Length 1 Reel**  
 0.05 m USD 306.00  
 0.1 m USD 388.00  
 0.2 m USD 505.00  
 0.5 m USD 889.00  
 1 m USD 1671.00

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU005160**

Diameter ..... **0.5mm**  
 Temper ..... **As Drawn**

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

**Length**

**Web Code**  
 238-454-957  
 092-760-486  
 595-054-080  
 381-759-814  
 719-979-574

**Quantity**

**Length 1 Reel**  
 0.05 m USD 228.00  
 0.1 m USD 272.00  
 0.2 m USD 340.00  
 0.5 m USD 540.00  
 1 m USD 951.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU005155**

Diameter ..... **0.5mm**  
 Temper ..... **Annealed**

Purity ..... **99.99%**

**Length**

**Web Code**  
 046-437-376  
 381-038-471  
 052-457-690  
 704-899-412  
 259-979-451

**Quantity**

**Length 1 Reel**  
 0.05 m USD 269.00  
 0.1 m USD 336.00  
 0.2 m USD 432.00  
 0.5 m USD 628.00  
 1 m USD 1148.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU005165**

Diameter ..... **0.75mm**  
 Temper ..... **As Drawn**

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

**Length**

**Web Code**  
 046-182-010  
 074-205-974  
 275-748-255  
 468-527-461  
 565-937-493

**Quantity**

**Length 1 Reel**  
 0.05 m USD 257.00  
 0.1 m USD 316.00  
 0.2 m USD 400.00  
 0.5 m USD 820.00  
 1 m USD 1520.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU005166**

Diameter ..... **0.75mm**  
 Temper ..... **As Drawn**

High Purity ..... **99.999%**

**Length**

**Web Code**  
 461-206-540  
 177-686-612  
 253-395-182  
 709-325-406

**Quantity**

**Length 1 Reel**  
 0.1 m USD 395.00  
 0.2 m USD 509.00  
 0.5 m USD 963.00  
 1 m USD 1790.00

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU005171**

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

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

**Length**

**Web Code**  
 132-513-275  
 564-158-653  
 519-826-347  
 978-293-753

**Quantity**

**Length 1 Reel**  
 0.05 m USD 275.00  
 0.1 m USD 369.00  
 0.2 m USD 626.00  
 0.5 m USD 1398.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Wire**

**AU005170**

Diameter ..... **1.0mm**  
 Temper ..... **Hard**

High Purity ..... **99.99+%**

**Length**

**Web Code**  
 742-181-475  
 772-681-344  
 585-172-868  
 146-602-769

**Quantity**

**Length 1 Reel**  
 0.05 m USD 341.00  
 0.1 m USD 471.00  
 0.2 m USD 781.00  
 0.5 m USD 1710.00

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.

**AU005172**

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

High Purity ..... **99.999%**

**Length**

**Web Code**  
 360-232-289  
 441-686-211  
 698-656-662  
 772-595-615

**Quantity**

**Length 1 Reel**  
 0.05 m USD 404.00  
 0.1 m USD 519.00  
 0.2 m USD 854.00  
 0.5 m USD 1930.00

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.



**Insulated Wire**

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

**AU005825**

Conductor diameter ..... **0.025mm**  
 Purity ..... **99.99%**

Insulation thickness ..... **0.002mm**  
 Insulation ..... **PTFE (Polytetrafluoroethylene)**

**Length**

**Web Code**  
 924-420-017  
 552-501-081  
 062-627-031

**Quantity**

**Length 1 Reel**  
 0.2 m USD 526.00  
 0.5 m USD 723.00  
 1 m USD 1196.00

Typical Analysis :

**AU005820**

Conductor diameter ..... **0.025mm**  
 Purity ..... **99.99%**

Insulation thickness ..... **0.005mm**  
 Insulation ..... **Polyester**

**Length**

**Web Code**  
 418-574-096  
 321-755-691  
 219-451-139  
 431-395-383

**Quantity**

**Length 1 Reel**  
 0.5 m USD 241.00  
 1 m USD 295.00  
 2 m USD 462.00  
 5 m USD 950.00

Typical Analysis :

**AU005830**

Conductor diameter ..... **0.05mm**  
 Purity ..... **99.99%**

Insulation thickness ..... **0.007mm**  
 Insulation ..... **Polyester**

**Length**

**Web Code**  
 828-383-790  
 547-963-046  
 495-384-694  
 923-079-227

**Quantity**

**Length 1 Reel**  
 0.5 m USD 255.00  
 1 m USD 339.00  
 2 m USD 551.00  
 5 m USD 1173.00

Typical Analysis :

**AU005831**

Conductor diameter ..... **0.05mm**  
 Purity ..... **99.99%**

Insulation thickness ..... **0.007mm**  
 Insulation ..... **Polyimide**

**Length**

**Web Code**  
 623-991-337  
 882-145-429  
 413-887-674  
 114-446-111

**Quantity**

**Length 1 Reel**  
 0.5 m USD 255.00  
 1 m USD 339.00  
 2 m USD 551.00  
 5 m USD 1173.00

Typical Analysis :

**AU005835**

Conductor diameter ..... **0.05mm**  
 Purity ..... **99.99%**

Insulation thickness ..... **0.009mm**  
 Insulation ..... **PTFE (Polytetrafluoroethylene)**

**Length**

**Web Code**  
 384-907-679  
 113-459-585  
 182-446-618  
 805-837-019

**Quantity**

**Length 1 Reel**  
 0.5 m USD 487.00  
 1 m USD 825.00  
 2 m USD 1501.00  
 5 m USD 3408.00

Typical Analysis :

**Metal – Gold**

**Gold**

**Au**



**Insulated Wire**

**AU005810**

Conductor diameter . . . . . **0.075mm**  
 Purity . . . . . **99.99%**

Insulation thickness . . . . . **0.012mm**  
 Insulation . . . . . **PTFE (Polytetrafluoroethylene)**

**Length**

**Web Code**  
 753-466-787  
 183-344-368  
 918-042-716

Quantity	
Length	1 Reel
0.5 m	USD 331.00
1 m	USD 534.00
2 m	USD 941.00

Typical Analysis :

**AU005837**

Conductor diameter . . . . . **0.10mm**  
 Purity . . . . . **99.99%**

Insulation thickness . . . . . **0.013mm**  
 Insulation . . . . . **PTFE (Polytetrafluoroethylene)**

**Length**

**Web Code**  
 141-157-656  
 831-453-044  
 469-022-923  
 329-557-013

Quantity	
Length	1 Reel
0.1 m	USD 211.00
0.2 m	USD 242.00
0.5 m	USD 306.00
1 m	USD 458.00

Typical Analysis :

**AU005836**

Conductor diameter . . . . . **0.10mm**  
 Purity . . . . . **99.99%**

Insulation thickness . . . . . **0.013mm**  
 Insulation . . . . . **Polyimide**

**Length**

**Web Code**  
 786-655-414

Quantity	
Length	1 Reel
0.1 m	USD 188.00

Typical Analysis :

**AU005840**

Conductor diameter . . . . . **0.125mm**  
 Purity . . . . . **99.99%**

Insulation thickness . . . . . **0.014mm**  
 Insulation . . . . . **Polyester**

**Length**

**Web Code**  
 729-632-214  
 204-036-389  
 504-541-320  
 067-667-136

Quantity	
Length	1 Reel
0.5 m	USD 261.00
1 m	USD 359.00
2 m	USD 590.00
5 m	USD 1270.00

Typical Analysis :

**AU005845**

Conductor diameter . . . . . **0.125mm**  
 Purity . . . . . **99.99%**

Insulation thickness . . . . . **0.016mm**  
 Insulation . . . . . **PTFE (Polytetrafluoroethylene)**

**Length**

**Web Code**  
 332-937-297  
 545-581-753  
 458-389-857  
 298-727-942  
 340-994-107

Quantity	
Length	1 Reel
0.1 m	USD 192.00
0.2 m	USD 218.00
0.5 m	USD 273.00
1 m	USD 411.00
2 m	USD 695.00

Typical Analysis :



**Rod**

**AU007905**

Diameter . . . . . **1.6mm**  
 Temper . . . . . **As Drawn**

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

**Size**

**Web Code**  
 984-548-643  
 378-678-875  
 304-092-532

Quantity		
Length	1pc	2pcs
25 mm	USD 446.00	USD 621.00
50 mm	USD 584.00	USD 1019.00
100 mm	USD 982.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007910**

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

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

**Size**

**Web Code**  
 310-808-995  
 851-122-324  
 390-299-684

Quantity		
Length	1pc	2pcs
25 mm	USD 512.00	USD 845.00
50 mm	USD 808.00	USD 1468.00
100 mm	USD 1431.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Rod**

**AU007920**

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

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

**Size**  
**Web Code**  
 088-438-672  
 431-739-300  
 967-424-793

Length	Quantity		
	1pc	2pcs	5pcs
10 mm	USD 495.00	USD 783.00	USD 1683.00
25 mm	USD 886.00	USD 1623.00	
50 mm	USD 1586.00		

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007940**

Diameter . . . . . **4.0mm**  
 Temper . . . . . **As Drawn**

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

**Size**  
**Web Code**  
 790-162-940  
 223-713-193

Length	Quantity	
	1pc	2pcs
10 mm	USD 684.00	USD 1219.00
25 mm	USD 1431.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007950**

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

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

**Size**  
**Web Code**  
 630-428-707  
 365-355-639

Length	Quantity	
	1pc	2pcs
10 mm	USD 963.00	USD 1779.00
25 mm	USD 2131.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007941**

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

Purity . . . . . **99.999%**

**Size**  
**Web Code**  
 299-814-922

Length	Quantity	
	1pc	2pcs
4 mm	USD 512.00	USD 845.00

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU007960**

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

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

**Size**  
**Web Code**  
 988-120-978

Length	Quantity	
	1pc	2pcs
6 mm	USD 858.00	USD 1567.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007961**

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

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

**Size**  
**Web Code**  
 035-573-365  
 154-886-247

Length	Quantity	
	1pc	2pcs
10 mm	USD 1306.00	POA
25 mm	POA	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007970**

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

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

**Size**  
**Web Code**  
 556-170-159  
 367-045-279

Length	Quantity	
	1pc	2pcs
10 mm	POA	
25 mm	POA	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.



**Tube**

**AU007020**

Outside Diameter . . . . . **0.15mm**  
 Inside Diameter . . . . . **0.05mm**  
 Temper . . . . . **As Drawn**

Wall Thickness . . . . . **0.05mm**  
 Purity . . . . . **99.95%**

**Size**  
**Web Code**  
 101-861-742

Length	Quantity		
	1pc	2pcs	5pcs
10 mm	USD 615.00	USD 782.00	USD 1261.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Tube**

**AU007050**

Outside Diameter . . . . . **0.3mm**  
 Inside Diameter . . . . . **0.2mm**  
 Temper . . . . . **As Drawn**

Wall Thickness . . . . . **0.05mm**  
 Purity . . . . . **99.95%**

**Size**

**Web Code**  
 348-981-704  
 732-712-807  
 589-112-066

Length	Quantity	
	1pc	2pcs
50 mm	USD 495.00	USD 632.00
100 mm	USD 626.00	USD 1034.00
200 mm	USD 1028.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007150**

Outside Diameter . . . . . **1.0mm**  
 Inside Diameter . . . . . **0.5mm**  
 Temper . . . . . **As Drawn**

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

**Size**

**Web Code**  
 061-829-407  
 048-859-375  
 599-492-641

Length	Quantity	
	1pc	2pcs
50 mm	USD 464.00	USD 564.00
100 mm	USD 556.00	USD 837.00
200 mm	USD 830.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007100**

Outside Diameter . . . . . **1.0mm**  
 Inside Diameter . . . . . **0.7mm**  
 Temper . . . . . **As Drawn**

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

**Size**

**Web Code**  
 702-234-087  
 555-395-240  
 424-412-308

Length	Quantity	
	1pc	2pcs
50 mm	USD 452.00	USD 547.00
100 mm	USD 539.00	USD 709.00
200 mm	USD 701.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007180**

Outside Diameter . . . . . **1.60mm**  
 Inside Diameter . . . . . **0.6mm**  
 Temper . . . . . **As Drawn**

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

**Size**

**Web Code**  
 180-831-788  
 048-397-675  
 680-498-273

Length	Quantity	
	1pc	2pcs
50 mm	USD 673.00	USD 1110.00
100 mm	USD 1103.00	USD 1971.00
200 mm	USD 1964.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007190**

Outside Diameter . . . . . **1.80mm**  
 Inside Diameter . . . . . **0.8mm**  
 Temper . . . . . **As Drawn**

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

**Size**

**Web Code**  
 738-962-618

Length	Quantity	
	1pc	
61 mm	USD 907.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007201**

Outside Diameter . . . . . **2.0mm**  
 Inside Diameter . . . . . **1.7mm**  
 Temper . . . . . **As Drawn**

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

**Size**

**Web Code**  
 479-612-432  
 481-645-315  
 379-967-892

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 511.00	USD 680.00	USD 1348.00
100 mm	USD 673.00	USD 1110.00	
200 mm	USD 1103.00		

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**AU007200**

Outside Diameter . . . . . **2.0mm**  
 Inside Diameter . . . . . **1.8mm**  
 Temper . . . . . **As Drawn**

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

**Size**

**Web Code**  
 701-617-803  
 869-903-500  
 737-947-418

Length	Quantity	
	1pc	2pcs
50 mm	USD 466.00	USD 566.00
100 mm	USD 559.00	USD 848.00
200 mm	USD 840.00	

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**

**Au**



**Tube**

<b>AU007290</b>	Outside Diameter . . . . . <b>3.0mm</b>	Wall Thickness . . . . . <b>0.10mm</b>
	Inside Diameter . . . . . <b>2.8mm</b>	Purity . . . . . <b>99.95%</b>
	Temper . . . . . <b>As Drawn</b>	
<b>Size</b>	<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1pc 2pcs 5pcs</b>
819-037-537	50 mm	USD 518.00 USD 703.00 USD 1406.00
055-869-698	100 mm	USD 696.00 USD 1157.00
716-273-950	200 mm	USD 1149.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

<b>AU007650</b>	Outside Diameter . . . . . <b>8mm</b>	Wall Thickness . . . . . <b>0.1mm</b>
	Inside Diameter . . . . . <b>7.8mm</b>	Purity . . . . . <b>99.95%</b>
	Temper . . . . . <b>As Drawn</b>	
<b>Size</b>	<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1pc 2pcs</b>
516-019-249	25 mm	USD 561.00 USD 855.00
929-602-862	50 mm	USD 847.00 USD 1460.00
989-899-573	100 mm	USD 1453.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

<b>AU007651</b>	Outside Diameter . . . . . <b>8mm</b>	Wall Thickness . . . . . <b>0.1mm</b>
	Inside Diameter . . . . . <b>7.8mm</b>	Purity . . . . . <b>99.95%</b>
	Temper . . . . . <b>As Drawn</b>	
<b>Size</b>	<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1pc</b>
353-201-827	200 mm	POA
975-157-040	500 mm	POA
948-045-447	1000 mm	POA

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

<b>AU007700</b>	Outside Diameter . . . . . <b>10.0mm</b>	Wall Thickness . . . . . <b>0.15mm</b>
	Inside Diameter . . . . . <b>9.7mm</b>	Purity . . . . . <b>99.95%</b>
	Temper . . . . . <b>As Drawn</b>	
<b>Size</b>	<b>Quantity</b>	
<b>Web Code</b>	<b>Length</b>	<b>1pc 2pcs</b>
769-614-369	50 mm	USD 1435.00 USD 2635.00
260-343-209	100 mm	USD 2627.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.



**Powder**

<b>AU006022</b>	Mean Particle size . . . . . <b>0.015micron</b>	Purity . . . . . <b>99.95%</b>
	Condition . . . . . <b>Nanopowder</b>	
	<b>Quantity</b>	
<b>Web Code</b>	<b>Weight</b>	<b>1 Pot</b>
665-470-203	1 g	POA
897-593-348	2 g	POA
359-069-913	5 g	POA

Typical Analysis : Ag <50, Al <25, Cu <10, Mg <50, Pd <50.

<b>AU006020</b>	Mean Particle size (FSSS) < <b>2micron</b>	Purity . . . . . <b>99.95%</b>
	<b>Quantity</b>	
<b>Web Code</b>	<b>Weight</b>	<b>1 Pot</b>
283-436-176	1 g	USD 393.00
429-518-101	2 g	USD 645.00

Typical Analysis : Ag <50, Al <25, Cu <10, Mg <50, Pd <50.

<b>AU006015</b>	Max. Particle size . . . . . <b>45micron</b>	Purity . . . . . <b>99.95%</b>
	<b>Quantity</b>	
<b>Web Code</b>	<b>Weight</b>	<b>1 Pot</b>
855-544-451	1 g	USD 393.00
943-058-108	2 g	USD 645.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

<b>AU006010</b>	Max. Particle size . . . . . <b>250micron</b>	Purity . . . . . <b>99.95%</b>
	<b>Quantity</b>	
<b>Web Code</b>	<b>Weight</b>	<b>1 Pot</b>
034-346-994	1 g	USD 380.00
293-366-764	2 g	USD 597.00

Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1.

**Metal – Gold**

**Gold**  
**Au**



**Lump**

**AU006106** Max. Lump size ..... **4mm** High Purity ..... **99.999%**

<b>Web Code</b>	<b>Quantity</b>	<b>Weight</b>	<b>1 Pot</b>
484-071-827		2 g	POA
262-821-231		5 g	POA
722-093-254		10 g	POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.  
 Nominally 3mm diameter x 3mm length pellets.

**AU006100** Max. Lump size ..... **6mm** Purity..... **99.99%**

<b>Web Code</b>	<b>Quantity</b>	<b>Weight</b>	<b>1 Pot</b>
983-280-007		1.5 g	POA
334-856-320		3 g	POA
398-555-163		4.5 g	POA

Typical Analysis : Ag 3, Ca <1, Cd <1, Cu 1, Fe <1, Mg <1, Pd 1, Si 1.  
 Nominally 4.7mm diameter x 4.7mm length pellets.



**Sphere**

**AU006840** Diameter ..... **0.5mm** Purity..... **99.99%**

<b>Web Code</b>	<b>Quantity</b>	<b>Spheres</b>	<b>1 Pot</b>
776-575-743		20 pcs	USD 232.00
730-799-167		50 pcs	USD 335.00
715-523-478		100 pcs	USD 477.00
800-824-795		200 pcs	USD 726.00

Typical Analysis :



**Single Crystal**

**AU002121** Oriented ..... **(100)** Thickness ..... **1mm**  
 Diameter ..... **10mm** Purity..... **99.999%**  
 Surface Finish ..... **Polished On One Side To 1 Micron**

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
958-708-525		USD POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU002120** Oriented ..... **(100)** Thickness ..... **1mm**  
 Diameter ..... **10mm** Purity..... **99.999%**  
 Condition..... **Unpolished**

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
142-765-490		USD POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU002131** Oriented ..... **(110)** Thickness ..... **1mm**  
 Diameter ..... **10mm** Purity..... **99.999%**  
 Surface Finish ..... **Polished On One Side To 1 Micron**

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
146-735-737		USD POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU002130** Oriented ..... **(110)** Thickness ..... **1mm**  
 Diameter ..... **10mm** Purity..... **99.999%**  
 Condition..... **Unpolished**

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
548-217-634		USD POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU002142** Oriented ..... **(111)** Thickness ..... **0.5mm**  
 Diameter ..... **10mm** Purity..... **99.999%**  
 Surface Finish ..... **Polished On One Side To 1 Micron**

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
745-993-529		USD POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**Metal – Gold**



**Gold**

**Au**



## Single Crystal

**AU002141**

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

Thickness ..... **1mm**  
Purity ..... **99.999%**

Quantity

**Web Code**  
395-540-068

**1pc**  
USD POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**AU002140**

Oriented ..... **(111)**  
Diameter ..... **10mm**  
Condition ..... **Unpolished**

Thickness ..... **1mm**  
Purity ..... **99.999%**

Quantity

**Web Code**  
134-650-215

**1pc**  
USD POA

Typical Analysis : Ag 3, Cu 3, Fe 2, Mg 2.

**Metal – Gold**

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