

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

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 Catalogue 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 Catalogue at www.goodfellow.com.

Materials

Metals and Alloys

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

Ceramics

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

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

Polymers

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

Compounds & Intermetallics

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

Composites

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

Glasses

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

The second type of glass product is commonly referred to as "metallic glasses" or "glassy metals". In contrast to crystalline metals and alloys with highly ordered atomic structures, these are non-crystalline (amorphous) metals or, more usually, alloys. Our Catalogue 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 Fibre

Fibres cut into short lengths called cut, staple or chopped fibre.

Tolerances

Fibre 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%



Fibre

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

Fibre 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.

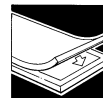


Insulated Wire

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%

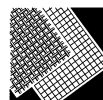


Lump

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%

Product Descriptions



Metallised 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: $\pm 10\%$
 Size (linear dimension): < 100mm $\pm 1\text{mm}$
 $\geq 100\text{mm}$ $+2\% / -1\%$



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 fibres 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. conventional textile fabrics. Due to the open and porous nature of this material, all other dimensions are nominal.

Tolerances

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



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



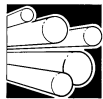
Powder

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

Product Descriptions



Rod

A straight length of circular section material.

Tolerances

Diameter:	≤ 10mm	± 10%
	Polymer	+ 20%/-10%
	Ceramic	+ 20%/-10%
> 10mm	± 5%	
	Ceramic	+ 20%/-10%
	Polymer	+ 20%/-10%
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / -1%



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

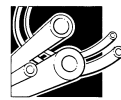


Sputtering Target

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

Tolerances

Thickness:	± 0.5mm
Size:	± 0.5mm



Tube

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

Tolerances

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



Washer

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

Tolerances

See item

Product Descriptions



Wire

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

Tolerances

Wire diameter: $\pm 10\%$
Length: $+ 5\% / -1\%$

Hazards Information

HAZARDS

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

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

Supports

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

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

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

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

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

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

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

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

Vacuum tight

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

Continuous Lengths

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

Technical Data and Information

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

Tolerances

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

Order information

General Information

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

Prices

All the prices listed are total (lot) prices for the sizes and quantities listed. Prices are subject to change without notice.

Prices shown include delivery except for those items marked as "special offer" or dangerous goods with transport restriction. They do not include value added tax, any import duties or local taxes.

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

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

An administration charge of £10 will be made for any order received for which same day shipment within the UK is requested.

Shipment

We aim to have all items listed in this catalogue in stock in the quantities and sizes listed. We can only undertake to despatch 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 despatched within 48 hours of receipt.

Non delivery

If we have notified you of despatch of goods and you have not received delivery within 7 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 invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

Order information

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, American Express, DELTA and Switch.

VAT

VAT number: 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 colour 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

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

Order information

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

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

Company Details

Company Structure

The Goodfellow Group consists of five companies:

Goodfellow Cambridge Limited

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

Goodfellow Corporation

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

Goodfellow GmbH

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

Goodfellow SARL

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

Goodfellow (Shanghai) Trading Co., Ltd

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

COMPANY DETAILS

Goodfellow Cambridge Limited

Ermine Business Park
HUNTINGDON
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VAT registration GB 212 8527 79

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USA
A Pennsylvania corporation
EIN 23-2557381

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Siren : 381486836
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Import VAT number DE112610478

Goodfellow (Shanghai) Trading Co., Ltd

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

Conditions of Sale

1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:-

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

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

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

2 ORDERS

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

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

3 DESCRIPTION

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

4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

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

5 QUOTATIONS

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

6 PRICE

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

7 DELIVERY

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

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- accordance with a means of delivery specifically requested by the Buyer, when the same are collected;
- 7.1.2 where delivery of the Goods is to be the responsibility of the Seller, when they arrive prior to unloading at the Buyer's premises;
- 7.1.3 where Goods are sold FOB or CIF, when they pass the ship's rail or are loaded onto the aircraft
- 7.2 Delivery of Services shall be deemed to be effected by the Seller at the time of completion by the Seller of the Services
- 7.3 Whilst the Seller will make every reasonable effort to complete the Contract by the date or dates therein specified for delivery of Goods or provision of Services such date or dates shall only constitute the times by which the Seller expects to effect such delivery and if no time is agreed delivery will be within a reasonable time but the performance of the Contract by the Seller shall not be the essence of the Contract, the Seller's failure to so deliver by the due date or dates shall not constitute a breach of Contract and the Seller shall not in any circumstances be responsible for any direct or consequential loss or damage of any kind whatsoever resulting therefrom. The Seller may wholly or partly suspend deliveries of Goods or provision of Services and the Buyer shall accept late delivery of such Goods or Services unless the Buyer has cancelled the Contract in accordance with the provisions of Condition 10.3

8 QUANTITIES INSTALMENTS AND STORAGE

- 8.1 Where Goods are delivered or Services are by instalment each instalment shall be deemed to be sold under a separate Contract and the party in default in respect of any instalment shall be liable accordingly, but no default in respect of any one instalment shall effect due performance of the Contract as regards other instalments
- 8.2 The Seller will endeavour to deliver the quantity of Goods ordered and every delivery shall be deemed to comply with the order. If there is a surplus or shortage of Goods which is no more than 10% of the quantity specified in the order the Buyer shall be deemed to have accepted the Goods and shall pay for the actual quantity delivered
- 8.3 If Goods or Services are to be delivered by instalments, the Seller shall be entitled to invoice each instalment as and when delivery is made and payment for all delivered instalments shall be due notwithstanding the non-delivery of other instalments or other default by the Seller. Failure by the Buyer to make payment by the due date for any one instalment for whatever reason shall entitle the Seller to suspend deliveries of Goods or provision of Services under the Contract but without prejudice to any other right the Seller may have under any of the other provisions of these Conditions
- 8.4 Notwithstanding that risk shall have passed to the Buyer pursuant to Condition 15 the Seller may in its absolute discretion arrange for storage of the Goods either at the request of the Buyer or as a result of the failure by the Buyer to take delivery of the Goods under Condition 7. The Seller may insure the goods whilst in storage and the Buyer shall indemnify and keep indemnified the Seller in full against all costs, losses, damages and expenses whatsoever arising in connection with the storage provided for hereunder and such costs, losses, damages and expenses will be added to and form part of the price of the Goods
- 8.5 Unless otherwise agreed between the Buyer and the Seller, the Seller shall be entitled in its absolute discretion and without giving prior notice to the Buyer at the expiration of 3 months to sell or otherwise dispose of Goods kept in storage as provided in Condition 8.4

9 TERMS OF PAYMENT

- 9.1 Unless otherwise agreed the price shall be due and payable at the Seller's offices 30 days after the date of the Seller's invoice
- 9.2 If the Buyer does not pay the whole or any part of the price on the required day then the Buyer shall pay to the Seller on request interest on the amount outstanding from the required day until the actual date of payment at the rate of 2% p.a. over the base rate of Barclays Bank plc from time to time in force which shall accrue on a daily basis
- 9.3 Condition 12 shall apply in the event of any alleged defect or failure in or of the Goods or Services and the Buyer shall not delay or refuse to make payment in any such event
- 9.4 The Buyer shall not be entitled to withhold payment of any amount due to the Seller by reason of any disputed claim by the Buyer in connection with the Contract nor shall the Buyer be entitled to set off against any amount payable under the Contract to the Seller any amount which is not then due and payable by the Seller or for which the Seller disputes liability
- 9.5 All payments payable to the Seller under the Contract shall become due immediately upon termination of the Contract despite any other provision.

10 SUSPENSION AND CANCELLATION

- 10.1 If the Buyer shall commit any breach of the Contract and fail to remedy the same within 7 days of receiving the Seller's request in writing so to do or any distress or execution is levied upon any goods or property of the Buyer or the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being an incorporated company) passes a resolution for winding up (otherwise than for the purpose of amalgamation or reconstruction), or a Court makes an order to that effect, or an encumbrancer takes possession, or an administrative receiver or receiver is appointed, of any of the property or assets of the Buyer, or the Buyer ceases, or threatens to cease, to carry on business or is unable to pay its debts within the meaning of section 123 Insolvency Act, 1986, or the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly, the Seller may:-
- 10.1.1 stop any Goods in transit and suspend any further deliveries;

and/or

- 10.1.2 suspend work on the Contract; and/or
- 10.1.3 determine the Contract forthwith and if the Goods or Services, or any part of them have been delivered but not paid for, the price shall become immediately due and payable notwithstanding any previous agreement to the contrary but without prejudice to the Seller's right to any unpaid price for Goods or Services delivered under the Contract and to damages for loss (both direct and consequential) suffered in consequence of such determination
- 10.2 If the Buyer requires cancellation of the Contract this will only be accepted at the sole discretion of the Seller and unless otherwise agreed in writing only upon condition that any costs, charges or expenses (both direct and consequential) incurred by the Seller up to the date of cancellation and the value of all loss or damage (both direct and consequential) incurred by the Seller by reason of such cancellation will be reimbursed by the Buyer to the Seller forthwith. Acceptance by the Seller of any cancellation by the Buyer will only be binding upon the Seller if it is made in writing
- 10.3 In the event of the Seller other than in any of the circumstances set out in Condition 10.1 being prevented or hindered from completing the Contract either wholly or in part in accordance with the terms thereof for any reason whatsoever beyond its reasonable control which, for the avoidance of doubt and without prejudice to the generality of the foregoing, shall include governmental action, war, riot, civil commotion, fire, flood, epidemic, labour disputes (including labour disputes involving the work force or any part thereof of the Seller or Supplier), restraints or delays affecting shipping or carriers, licensing, exporting or importing restrictions, currency restrictions and Acts of God then further performance of the Contract shall be suspended for the period during which the Seller is so prevented provided that in the event of the Contract being suspended for a continuous period of more than 3 months then either party may give the other notice in writing to terminate the Contract forthwith and in such circumstances the Buyer shall pay for all Goods or Services supplied to the date of such termination such payment to be made on or before the last day following the month during which termination was effected. The Seller shall be under no liability whatsoever to the Buyer for any direct or consequential loss or damage suffered by the Buyer as a result of the Seller's inability to perform its obligations under the Contract in these circumstances
- 10.4 The Seller's rights contained in Condition 17 (but not the Buyer's rights) shall continue beyond the discharge of the parties' primary obligations under the Contract consequent upon its termination
- 10.5 The termination of the Contract for whatever reason will be without prejudice to the rights and duties of either party accrued prior to termination

11 INSPECTION AND CLAIMS FOR DEFECTS

- 11.1 The Goods are of a highly specialised nature and must be treated with the utmost care. It is essential that the Buyer checks that they correspond in all respects with the Buyer's requirements. Any discrepancies should be notified to the Seller immediately. The Buyer undertakes to ensure that all Goods are unpacked and handled only by persons qualified to deal with such specialised products, to safeguard against injury to the Goods or to the Buyer's personnel
- 11.2 The Buyer shall inspect the Goods and carry out tests to ensure the Goods conform with the description of the Goods or Services in the Buyer's orders within 7 days of Delivery and whether or not the Buyer carries out such obligation to inspect and test no claims for non-delivery, shortages in quantity of units delivered, defective Goods or Services, non-conformity to description or partial loss or damage to Goods will be accepted by the Seller unless:-
- 11.2.1 they are notified in writing by the Buyer to the Seller within 10 days after the Date of Delivery (in the case of partial loss, damage, non-conforming or defective Goods or Services) or 14 days after the date of the invoice (in the case of non-delivery);
- 11.2.2 the Goods in respect of which a claim is made together with all the relevant packing are preserved intact as received for a period of 35 days from notification of any such claim and the Buyer permits the Seller or its servants or agents full and free right of access to inspect the Goods and investigate the claim; and
- 11.2.3 if the Buyer fails to give the appropriate notice as specified in Condition 11.2.1, the Buyer's claim will be deemed to have been waived and will be absolutely barred
- 11.3 It is in all cases the responsibility of the Buyer to ensure by testing or otherwise that the Goods are fit and suitable for the purposes for which the Buyer requires them in the conditions in which they will be used. The Buyer acknowledges that the Seller shall be under no liability of any description to the Buyer if the Goods prove to be unsuitable for whatever reason for application or use notwithstanding that the Seller may, at the request of the Buyer, have given in good faith technical or other advice in relation to the proposed application or use of the Goods and the Buyer shall indemnify and keep indemnified the Seller in full against any and all liability of any kind arising out of or connected with the application or use of the Goods
- 11.4 Section 3 Sale and Supply of Goods Act 1994 shall not apply
- 11.5 The Seller will not accept the return of Goods in any circumstances unless it has first issued a Goods return number and such number is quoted with the returned Goods

12 WARRANTY

- 12.1 In substitution for all and any other rights which the Buyer might or would have had but for these Conditions and subject to Condition 11,

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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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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 colour. 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", HNO₃/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.

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



Microfoil

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

AU004100 Thinness **0.01μm** Area density **20.7μg.cm⁻²**
 Purity **99.99+%** Support **Permanent Mylar 3.5μm**

		Quantity			
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
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 Thinness **0.05μm** Area density **101.3μg.cm⁻²**
 Purity **99.99+%** Support **Permanent Mylar 3.5μm**

		Quantity			
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
469-909-744	10 mm	USD 354.00	USD 476.00	USD 845.00	USD 1336.00
339-549-368	25 mm	USD 517.00	USD 722.00	USD 1336.00	USD 2155.00

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 Thinness **0.1μm** Area density **204.1μg.cm⁻²**
 Purity **99.99+%** Support **Permanent Mylar 3.5μm**

		Quantity			
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
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 Thinness **0.25μm** Area density **483μg.cm⁻²**
 Purity **99.99+%** Support **Permanent Mylar 3.5μm**

		Quantity			
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
760-097-541	10 mm	USD 423.00	USD 580.00	USD 1052.00	USD 1681.00
523-941-592	25 mm	USD 632.00	USD 895.00	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 Thinness **0.5μm** Area density **966μg.cm⁻²**
 Purity **99.99+%** Support **Permanent Mylar 3.5μm**

		Quantity			
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
385-989-809	10 mm	USD 451.00	USD 623.00	USD 1137.00	USD 1823.00
091-537-380	25 mm	USD 680.00	USD 966.00	USD 1823.00	USD 2967.00

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.

Gold

Au



Microfoil

AU004800

Thickness **0.75µm** Area density **1449µg.cm⁻²**
 Purity **99.99+%** Support **Permanent Mylar 3.5µm**

Web Code	Disc diam.	Quantity			
		1 disc	2discs	5discs	10discs
877-860-403	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** Area density **1932µg.cm⁻²**
 Purity **99.99+%** Support **Permanent Mylar 3.5µm**

Web Code	Disc diam.	Quantity			
		1 disc	2discs	5discs	10discs
192-291-155	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** Specific density **483µg.cm⁻²**
 Purity **99.99+%** Support **Removable**

Web Code	Disc diam.	Quantity		
		1 disc	2discs	5discs
122-312-230	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** Specific density **966µg.cm⁻²**
 Purity **99.99+%** Support **Removable**

Web Code	Disc diam.	Quantity		
		1 disc	2discs	5discs
470-781-293	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** Specific density **1932µg.cm⁻²**
 Purity **99.99+%** Support **Removable**

Web Code	Disc diam.	Quantity		
		1 disc	2discs	5discs
661-356-418	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%**

Web Code	Size	Quantity	
		1pc	2pcs
671-266-977	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%**

Web Code	Size	Quantity			
		1pc	2pcs	5pcs	10pcs
559-947-430	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%**

Web Code	Size	Quantity			
		1pc	2pcs	5pcs	10pcs
907-750-868	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	

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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	

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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	

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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	

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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	

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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.

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.

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		

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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.

Metal – Gold

Gold

Au



Foil

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		

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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		

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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.

AU000342

Thickness **0.025mm**

Coil width **2mm**

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

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
0.1 m	USD 244.00
0.2 m	USD 289.00
0.5 m	USD 471.00

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

AU000340

Thickness **0.025mm**

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

Temper..... **As rolled**

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		

Discs

Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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.

Metal – Gold

Gold

Au



Foil

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		

Discs

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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

Length	Quantity	
	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	

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%**

Discs

Web Code
 286-910-407

Diameter	Quantity	
	1 discs	
8 mm	USD POA	

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

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 366.00	USD 471.00	USD 687.00
50 x 50 mm	USD 602.00	USD 953.00	
100 x 100 mm	USD 1761.00		

Discs

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 467.00	USD 595.00	USD 916.00
6 mm	USD 542.00	USD 701.00	USD 1089.00
8 mm	USD 617.00	USD 810.00	USD 1267.00
10 mm	USD 693.00	USD 920.00	USD 1628.00
15 mm	USD 877.00	USD 1303.00	

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		

Discs

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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.

Metal – Gold

Gold

Au



Foil

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		

Discs

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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		

Discs

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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.

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		

Discs

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
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 557.00	USD 937.00	POA
50 x 50 mm	USD 1674.00	POA	
100 x 100 mm	POA		

Discs

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 531.00	USD 657.00	USD 1163.00
6 mm	USD 636.00	USD 953.00	USD 1903.00
8 mm	USD 844.00	USD 1368.00	USD 2939.00
10 mm	USD 1110.00	USD 1901.00	USD 4272.00
15 mm	USD 2013.00	USD 3706.00	

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

Metal – Gold

Gold

Au



Foil

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
 10 x 10 mm
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm

Quantity			
1pc	2pcs	5pcs	10pcs
USD 309.00	USD 386.00	USD 567.00	POA
USD 662.00	USD 1196.00	POA	POA
POA	POA	POA	POA
POA	POA	POA	POA

Discs

Web Code

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

Diameter
 4 mm
 6 mm
 8 mm
 10 mm
 15 mm

Quantity		
10 discs	20 discs	50 discs
USD 556.00	USD 712.00	USD 1259.00
USD 701.00	USD 1083.00	USD 2329.00
USD 961.00	USD 1682.00	USD 3827.00
USD 1346.00	USD 2452.00	USD 5753.00
USD 2638.00	USD 5036.00	

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

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
 10 x 10 mm
 12.5 x 12.5 mm
 25 x 25 mm
 50 x 50 mm

Quantity				
1pc	2pcs	5pcs	10pcs	20pcs
USD 318.00	USD 408.00	USD 782.00	USD 1404.00	POA
USD 354.00	USD 534.00	USD 1097.00	POA	POA
USD 872.00	USD 1585.00	POA	POA	POA
POA	POA	POA	POA	POA

Discs

Web Code

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

Diameter
 4 mm
 6 mm
 8 mm
 10 mm

Quantity		
10 discs	20 discs	50 discs
USD 657.00	USD 1023.00	USD 1871.00
USD 929.00	USD 1581.00	
USD 1320.00	USD 2362.00	
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
 10 x 10 mm
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm

Quantity			
1pc	2pcs	5pcs	10pcs
USD 386.00	USD 479.00	USD 885.00	POA
USD 1019.00	USD 1862.00	POA	POA
POA	POA	POA	POA
POA	POA	POA	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
 095-204-885

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.

AU000381

Thickness **0.50mm**
 Temper **As rolled**

High Purity **99.999%**

Size

Web Code

562-434-609
 379-698-249
 392-039-398

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.

AU000385

Thickness **0.75mm**
 Temper **As rolled**

Purity **99.95%**

Size

Web Code

910-070-638
 879-884-265
 069-891-367

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.

Metal – Gold

Gold

Au



Foil

AU000391 Thickness **1.0mm** Purity **99.95%**
 Temper **As rolled** Condition **Polished on both sides**

Discs **Quantity**
Web Code **Diameter** **1 discs**
 423-075-019 12 mm USD POA

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

AU000392 Thickness **1.0mm** Purity **99.95%**
 Temper **As rolled** Condition **Polished on both sides**

Size **Quantity**
Web Code **Size** **1pc**
 048-264-932 10 x 10 mm POA

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

AU000390 Thickness **1.0mm** Purity **99.95%**
 Temper **As rolled**

Size **Quantity**
Web Code **Size** **1pc**
 541-542-898 10 x 10 mm POA
 900-602-303 25 x 25 mm POA
 575-294-029 50 x 50 mm POA

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

AU000393 Thickness **1.0mm** High Purity **99.999%**
 Temper **As rolled**

Size **Quantity**
Web Code **Size** **1pc**
 883-489-553 10 x 10 mm POA
 809-707-239 25 x 25 mm POA
 364-669-605 50 x 50 mm POA

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

AU000395 Thickness **1.5mm** Purity **99.95%**
 Temper **As rolled**

Size **Quantity**
Web Code **Size** **1pc**
 452-764-083 10 x 10 mm POA
 963-875-208 25 x 25 mm POA
 350-006-375 50 x 50 mm POA

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

AU000396 Thickness **1.5mm** High Purity **99.999%**
 Temper **As rolled**

Size **Quantity**
Web Code **Size** **1pc**
 040-882-687 10 x 10 mm POA
 955-485-404 25 x 25 mm POA
 543-580-275 50 x 50 mm POA

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

AU000400 Thickness **2.0mm** Purity **99.95%**
 Temper **As rolled**

Size **Quantity**
Web Code **Size** **1pc**
 582-025-462 10 x 10 mm POA
 911-758-561 25 x 25 mm POA
 969-819-022 50 x 50 mm POA

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

AU000401 Thickness **2.0mm** High Purity **99.999%**
 Temper **As rolled**

Size **Quantity**
Web Code **Size** **1pc**
 311-900-264 10 x 10 mm POA
 400-160-122 25 x 25 mm POA
 064-301-933 50 x 50 mm POA

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

Metal – Gold

Gold

Au



Sputtering Target

AU009100 Thickness **0.1mm** Tolerance **15%**
 Purity **99.95%**

Size	Quantity	
Web Code	Disc diam.	1disc
678-449-863	25 mm	POA
767-152-206	50 mm	POA
269-620-278	54 mm	POA
631-109-991	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.

AU009202 Thickness **0.2mm** Tolerance **15%**
 Purity **99.95%**

Size	Quantity	
Web Code	Disc diam.	1disc
909-757-633	25 mm	POA
700-195-918	50 mm	POA
049-632-480	54 mm	POA
145-707-263	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	Quantity	
Web Code	Disc diam.	1disc
448-157-218	25 mm	POA
678-827-311	50 mm	POA
935-007-932	54 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	Quantity	
Web Code	Disc diam.	1disc
369-712-979	10 mm	POA
627-540-266	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	Quantity	
Web Code	Disc diam.	1disc
611-718-263	25 mm	POA
484-695-179	50 mm	POA
966-679-037	54 mm	POA
300-208-255	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	Quantity	
Web Code	Disc diam.	1disc
653-414-251	25 mm	POA
336-338-952	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	Quantity	
Web Code	Disc diam.	1disc
928-216-201	25.4 mm	POA
345-950-847	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	Quantity	
Web Code	Disc diam.	1disc
567-037-208	25 mm	POA
802-532-440	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.

Metal – Gold

Gold

Au



Sputtering Target

AU009209

Thickness **3mm**

High Purity **99.999%**

Size

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

Disc diam.
 25 mm
 50 mm

Quantity

1disc
 POA
 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.



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
 437-659-372
 899-125-481
 804-703-028

Size
 10 x 10 mm
 20 x 20 mm
 50 x 50 mm

Quantity

Size	1pc	2pcs
10 x 10 mm	USD 323.00	USD 416.00
20 x 20 mm	USD 497.00	USD 662.00
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
 729-929-971
 525-067-831
 290-503-215

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

Quantity

Size	1pc	2pcs	5pcs
10 x 10 mm	USD 288.00	USD 366.00	USD 526.00
25 x 25 mm	USD 496.00	USD 661.00	
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
 616-585-237
 142-974-300
 579-165-476

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

Quantity

Size	1pc	2pcs	5pcs
10 x 10 mm	USD 214.00	USD 258.00	USD 345.00
25 x 25 mm	USD 331.00	USD 424.00	
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
 011-784-569
 473-069-099
 133-626-904

Size
 20 x 20 mm
 50 x 50 mm
 100 x 100 mm

Quantity

Size	1pc	2pcs	5pcs
20 x 20 mm	USD 333.00	USD 417.00	USD 593.00
50 x 50 mm	USD 538.00	USD 891.00	
100 x 100 mm	USD 1486.00		

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
 052-270-517
 726-959-758
 869-967-279
 745-904-768

Quantity

Length **1 Reel**

1 m	USD 471.00
5 m	USD 815.00
10 m	USD 1092.00
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.

Metal – Gold

Gold

Au



Wire

AU005115	Diameter..... 0.0125mm	Purity..... 99.99+%
	Temper..... Hard	
	Length	Quantity
	Web Code	Length 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.

AU005118	Diameter..... 0.0175mm	Purity..... 99.99+%
	Temper..... Annealed	
	Length	Quantity
	Web Code	Length 1 Reel
	827-001-426	1 m USD 387.00
	258-902-287	5 m USD 627.00
	126-413-079	10 m USD 826.00
	692-379-952	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	Purity..... 99.99+%
	Temper..... Hard	
	Length	Quantity
	Web Code	Length 1 Reel
	238-089-224	1 m USD 212.00
	145-229-036	5 m USD 308.00
	153-635-479	10 m USD 351.00
	204-435-425	20 m USD 414.00
	403-467-045	50 m USD 545.00
	013-643-527	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	Purity..... 99.99+%
	Temper..... Annealed	
	Length	Quantity
	Web Code	Length 1 Reel
	352-911-455	1 m USD 212.00
	622-281-780	5 m USD 308.00
	739-110-568	10 m USD 351.00
	797-996-187	20 m USD 414.00
	485-823-112	50 m USD 545.00
	469-690-710	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	Purity..... 99.99+%
	Temper..... Hard	
	Length	Quantity
	Web Code	Length 1 Reel
	671-690-436	1 m USD 360.00
	346-200-166	5 m USD 574.00
	051-047-078	10 m USD 734.00
	303-108-501	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	Purity..... 99.99+%
	Temper..... Annealed	
	Length	Quantity
	Web Code	Length 1 Reel
	800-913-238	1 m USD 360.00
	966-082-456	5 m USD 574.00
	845-109-071	10 m USD 734.00
	815-294-545	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	Purity..... 99.99+%
	Temper..... Hard	
	Length	Quantity
	Web Code	Length 1 Reel
	554-430-451	1 m USD 360.00
	303-802-399	5 m USD 574.00
	975-291-816	10 m USD 734.00
	959-561-945	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.

Metal – Gold

Gold

Au



Wire

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.

AU005133

Diameter **0.10mm**
 Temper **Annealed**

High Purity **99.99%**

Length

Web Code
 323-162-295
 561-044-557
 588-091-564
 542-238-712
 092-874-443
 879-829-364

Quantity	
Length	1 Reel
0.2 m	USD 213.00
0.5 m	USD 258.00
1 m	USD 311.00
2 m	USD 390.00
5 m	USD 560.00
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**
 Temper **Hard**

High Purity **99.99+%**

Length

Web Code
 935-173-863
 896-734-638
 091-825-945
 478-243-863
 780-486-255
 560-781-527

Quantity	
Length	1 Reel
0.2 m	USD 214.00
0.5 m	USD 260.00
1 m	USD 313.00
2 m	USD 394.00
5 m	USD 566.00
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**
 Temper **Annealed**

High Purity **99.99%**

Length

Web Code
 968-540-132
 260-350-512
 281-954-985
 783-174-005
 920-862-412
 615-683-656

Quantity	
Length	1 Reel
0.1 m	USD 186.00
0.2 m	USD 203.00
0.5 m	USD 240.00
1 m	USD 293.00
2 m	USD 441.00
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**
 Temper **Hard**

High Purity **99.99+%**

Length

Web Code
 097-691-461
 211-425-610
 428-204-668
 525-575-541
 696-946-887
 118-361-999

Quantity	
Length	1 Reel
0.1 m	USD 196.00
0.2 m	USD 218.00
0.5 m	USD 263.00
1 m	USD 371.00
2 m	USD 598.00
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**
 Temper **As drawn**

Purity **99.95%**

Length

Web Code
 155-315-773
 131-965-728
 368-916-361
 877-948-692
 187-087-905

Quantity	
Length	1 Reel
0.1 m	USD 203.00
0.2 m	USD 229.00
0.5 m	USD 292.00
1 m	USD 440.00
2 m	USD 736.00

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

Metal – Gold

Gold

Au



Wire

AU005148

Diameter **0.40mm**
 Temper **As drawn**

Purity **99.95%**

Length

Web Code
 578-069-728
 624-652-504
 809-111-552
 654-514-166
 605-006-743

Quantity	
Length	1 Reel
0.1 m	USD 214.00
0.2 m	USD 244.00
0.5 m	USD 351.00
1 m	USD 557.00
2 m	USD 969.00

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

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.

Metal – Gold

Gold

Au



Wire

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.

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 :

Metal – Gold

Gold

Au



Insulated Wire

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 :

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.

Metal – Gold

Gold

Au



Rod

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.

AU007920

Diameter **3.0mm**
 Temper **As drawn**

Purity **99.95%**

Size

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

Quantity

Length	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

Quantity

Length	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

Quantity

Length	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

Quantity

Length	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

Quantity

Length	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

Quantity

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

Quantity

Length	1pc
10 mm	POA
25 mm	POA

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

Metal – Gold

Gold

Au



Tube

AU007020 Outside Diameter..... **0.15mm** Wall Thickness..... **0.05mm**
 Inside Diameter..... **0.05mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
101-861-742	10 mm	USD 615.00	USD 782.00	USD 1261.00

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

AU007050 Outside Diameter..... **0.3mm** Wall Thickness..... **0.05mm**
 Inside Diameter..... **0.2mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
348-981-704	50 mm	USD 495.00	USD 632.00	
732-712-807	100 mm	USD 626.00	USD 1034.00	
589-112-066	200 mm	USD 1028.00		

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

AU007150 Outside Diameter..... **1.0mm** Wall Thickness..... **0.25mm**
 Inside Diameter..... **0.5mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
061-829-407	50 mm	USD 464.00	USD 564.00	
048-859-375	100 mm	USD 556.00	USD 837.00	
599-492-641	200 mm	USD 830.00		

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

AU007100 Outside Diameter..... **1.0mm** Wall Thickness..... **0.15mm**
 Inside Diameter..... **0.7mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
702-234-087	50 mm	USD 452.00	USD 547.00	
555-395-240	100 mm	USD 539.00	USD 709.00	
424-412-308	200 mm	USD 701.00		

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

AU007180 Outside Diameter..... **1.60mm** Wall Thickness..... **0.5mm**
 Inside Diameter..... **0.6mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
180-831-788	50 mm	USD 673.00	USD 1110.00	
048-397-675	100 mm	USD 1103.00	USD 1971.00	
680-498-273	200 mm	USD 1964.00		

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

AU007190 Outside Diameter..... **1.80mm** Wall Thickness..... **0.5mm**
 Inside Diameter..... **0.8mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
738-962-618	61 mm	USD 907.00		

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

AU007201 Outside Diameter..... **2.0mm** Wall Thickness..... **0.15mm**
 Inside Diameter..... **1.7mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
479-612-432	50 mm	USD 511.00	USD 680.00	USD 1348.00
481-645-315	100 mm	USD 673.00	USD 1110.00	
379-967-892	200 mm	USD 1103.00		

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

AU007200 Outside Diameter..... **2.0mm** Wall Thickness..... **0.1mm**
 Inside Diameter..... **1.8mm** Purity..... **99.95%**
 Temper..... **As drawn**

Size	Quantity			
	Length	1pc	2pcs	5pcs
Web Code				
701-617-803	50 mm	USD 466.00	USD 566.00	
869-903-500	100 mm	USD 559.00	USD 848.00	
737-947-418	200 mm	USD 840.00		

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

Metal – Gold

Gold

Au



Tube

AU007290

Outside Diameter **3.0mm**
 Inside Diameter **2.8mm**
 Temper **As drawn**

Wall Thickness **0.10mm**
 Purity **99.95%**

Size

Web Code

819-037-537
 055-869-698
 716-273-950

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 518.00	USD 703.00	USD 1406.00
100 mm	USD 696.00	USD 1157.00	
200 mm	USD 1149.00		

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

AU007650

Outside Diameter **8mm**
 Inside Diameter **7.8mm**
 Temper **As drawn**

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

Size

Web Code

516-019-249
 929-602-862
 989-899-573

Length	Quantity	
	1pc	2pcs
25 mm	USD 561.00	USD 855.00
50 mm	USD 847.00	USD 1460.00
100 mm	USD 1453.00	

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

AU007651

Outside Diameter **8mm**
 Inside Diameter **7.8mm**
 Temper **As drawn**

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

Size

Web Code

353-201-827
 975-157-040
 948-045-447

Length	Quantity
	1pc
200 mm	POA
500 mm	POA
1000 mm	POA

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

AU007700

Outside Diameter **10.0mm**
 Inside Diameter **9.7mm**
 Temper **As drawn**

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

Size

Web Code

769-614-369
 260-343-209

Length	Quantity	
	1pc	2pcs
50 mm	USD 1435.00	USD 2635.00
100 mm	USD 2627.00	

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



Powder

AU006022

Mean Particle size **0.015micron**
 Condition **Nanopowder**

Purity **99.95%**



Web Code

665-470-203
 897-593-348
 359-069-913

Quantity	Weight	1 Pot
	1 g	POA
	2 g	POA
	5 g	POA

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

AU006020

Mean Particle size (FSSS) <**2micron**

Purity **99.95%**



Web Code

283-436-176
 429-518-101

Quantity	Weight	1 Pot
	1 g	USD 393.00
	2 g	USD 645.00

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

AU006015

Max. Particle size **45micron**

Purity **99.95%**



Web Code

855-544-451
 943-058-108

Quantity	Weight	1 Pot
	1 g	USD 393.00
	2 g	USD 645.00

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

AU006010

Max. Particle size **250micron**

Purity **99.95%**



Web Code

034-346-994
 293-366-764

Quantity	Weight	1 Pot
	1 g	USD 380.00
	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%**

Web Code	Quantity	Weight	1 Pot
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%**

Web Code	Quantity	Weight	1 Pot
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%**

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

Typical Analysis :



Single Crystal

AU002121 Oriented **(100)** Thickness **1mm**
 Diameter **10mm** Purity **99.999%**
 Condition **Polished on 1 side to 1 micron**

Web Code	Quantity	1pc
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**

Web Code	Quantity	1pc
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%**
 Condition **Polished on 1 side to 1 micron**

Web Code	Quantity	1pc
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**

Web Code	Quantity	1pc
548-217-634		USD POA

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

AU002141 Oriented **(111)** Thickness **1mm**
 Diameter **10mm** Purity **99.999%**
 Condition **Polished on 1 side to 1 micron**

Web Code	Quantity	1pc
395-540-068		USD POA

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

Metal – Gold

Gold

Au



Single Crystal

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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