

# 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



**Goodfellow Cambridge Limited**

Ermine Business Park  
HUNTINGDON  
PE29 6WR  
England

Tel: +44 1480 424 800  
or +44 1480 424 800  
Fax: +44 1480 424 900  
or +44 1480 424 900

**Goodfellow Corporation**

125 Hookstown Grade Road  
Coraopolis, PA 15108-9302  
USA

Tel: 1-800-821-2870 (USA and Canada)  
or +1 724 695 7060  
Fax: 1-800-283-2020 (USA and Canada)  
or +1 724 695 7063

**Goodfellow SARL**

229, rue Solférino  
F-59000 Lille  
France

Tel : 0800 917 241 (numéro vert)  
or +44 1480 424 813  
Fax : 0800 917 313 (numéro vert)  
or +44 1480 424 900

**Goodfellow GmbH**

Am Edelspfad 4  
D-61169 Friedberg  
Germany

Tel: 0800 1000 579 (freecall)  
or +44 1480 424 810  
Fax: 0800 1000 580 (freecall)  
or +44 1480 424 900

**Goodfellow (Shanghai) Trading Co., Ltd**

Room 803, Centro Build, No. 568 Hengfeng Road  
SHANGHAI  
200070

The People's Republic of China  
Tel: 00 86 21 6112 1560

# Standard Price List for Gold

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## Introduction

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

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

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

The range of materials offered by Goodfellow is extensive, as are the forms in which the various products are available. This 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](http://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](http://www.goodfellow-ceramics.com) for further information.

#### ***Polymers***

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

#### ***Compounds & Intermetallics***

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

#### ***Composites***

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

#### ***Glasses***

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

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

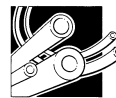


**Sputtering Target**

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



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## Product Descriptions

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### 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-cm<sup>3</sup>.s<sup>-1</sup>.

### Continuous Lengths

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

### Technical Data and Information

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

### Tolerances

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

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## Order information

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### General Information

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

### Prices

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

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## Order information

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### 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

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## Order information

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

Copies of our General Terms and Conditions are available upon request or can be downloaded from our websites at [www.goodfellow.com](http://www.goodfellow.com) or [www.goodfellowusa.com](http://www.goodfellowusa.com).

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## Company Details

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### Company Structure

The Goodfellow Group consists of five companies:

#### ***Goodfellow Cambridge Limited***

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

#### ***Goodfellow Corporation***

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

#### ***Goodfellow GmbH***

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

#### ***Goodfellow SARL***

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

#### ***Goodfellow (Shanghai) Trading Co., Ltd***

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

### COMPANY DETAILS

#### **Goodfellow Cambridge Limited**

Ermine Business Park  
HUNTINGDON  
PE29 6WR  
England  
Registered in England and Wales no. 1188162  
VAT registration GB 212 8527 79

#### **Goodfellow Corporation**

125 Hookstown Grade Road  
Coraopolis, PA 15108-9302  
USA  
A Pennsylvania corporation  
EIN 23-2557381

#### **Goodfellow SARL**

229, rue Solférino  
F-59000 Lille  
France  
Registered in Lille : RCS : B 381 486 836  
Siren : 381486836  
Numéro de TVA Intracommunitaire :  
FR 06 381 486 836

#### **Goodfellow GmbH**

Am Edelspfad 4  
D-61169 Friedberg  
Germany  
Registered in Friedberg (Hessen) No. HRB 1309  
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



## Conditions of Sale

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

and/or

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

## Conditions of Sale

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

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

### 13 CONSUMER SALES

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

### 14 TITLE TO GOODS

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

### 15 RISK AND INSURANCE

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

### 16 EXPORT TERMS

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

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

- 16.2 Where the Goods are supplied for export from the United Kingdom then unless otherwise agreed in writing between the Buyer and the Seller

- 16.2.1 the provisions of Incoterms shall (subject to any special terms agreed in writing between the Buyer and the Seller) apply but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.
- 16.2.2 the Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and (save in respect of the United States of America, Canada and Japan) for the payment of any duties and taxes thereon unless payment for these is included in the Contract
- 16.2.3 the Buyer shall be deemed to have satisfied itself that such Goods comply with the safety regulations of any country or state in which the Goods are to be used outside the United Kingdom and the Buyer shall indemnify and keep indemnified the Seller in full for any loss or damage whatsoever which the Seller may incur if such Goods do not comply with such safety regulations

- 16.3 The Goods shall not be used in any country other than that for which the Seller was aware they were originally ordered without the Seller's consent in writing

- 16.4 The Buyer undertakes not to offer the Goods for resale in any country notified by the Seller at or before the time the Buyer's order is placed, or to sell the Goods to any person if the Buyer knows or has reason to believe that person intends to resell the Goods in any such country

### 17 BUYER'S WARRANTIES

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

### 18 SEVERANCE

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

### 19 JURISDICTION

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

### 20 NOTICES

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

### 21 WAIVER

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## Conditions of Sale

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

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

## Gold

### Au

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

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

<b>Atomic Properties</b>		<b>Electrical Properties</b>			
Atomic number	79	Electrical resistivity @20C			2.20 μOhmcm
Atomic radius - Goldschmidt	0.144 nm	Temperature coefficient @0-100C			0.0040 K <sup>-1</sup>
Atomic weight	196.9665 amu	Thermal emf against Pt (cold 0C - hot 100C)			+0.74 mV
Crystal structure	Face centred cubic	<b>Thermal Properties</b>			
Electronic structure	Xe 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>1</sup>	Coefficient of thermal expansion @0-100C			14.1 x10 <sup>-6</sup> K <sup>-1</sup>
Photo-electric work function	4.8 eV	Latent heat of evaporation			1738 J g <sup>-1</sup>
Thermal neutron absorption cross-section	98.8 Barns	Latent heat of fusion			64.9 J g <sup>-1</sup>
Valences shown	1,3	Specific heat @25C			129 J K <sup>-1</sup> kg <sup>-1</sup>
		Thermal conductivity @0-100C			318 W m <sup>-1</sup> K <sup>-1</sup>
Natural isotope distribution	Mass No. %	<b>Mechanical Properties</b>			
	197 100	Material condition	Soft	Hard	Polycrystalline
Ionisation potential	No. eV	Bulk modulus			171 GPa
	1 9.22	Hardness - Vickers	20-30	60	
	2 20.5	Poisson's ratio			0.42
<b>Physical Properties</b>		Tensile modulus			78.5 GPa
Boiling point	3080 C	Tensile strength	130	220	MPa
Density @20C	19.30 g cm <sup>-3</sup>	Yield strength			205 MPa
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<sup>-2</sup>**  
 Purity..... **99.99+%** Support..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disc diam.</b>	<b>1 disc</b>	<b>2discs</b>	<b>5discs</b>	<b>10discs</b>
252-946-202	10 mm	EUR 272.00	EUR 370.00	EUR 662.00	EUR 1052.00

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<sup>-2</sup>**  
 Purity..... **99.99+%** Support..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disc diam.</b>	<b>1 disc</b>	<b>2discs</b>	<b>5discs</b>	<b>10discs</b>
469-909-744	10 mm	EUR 253.00	EUR 341.00	EUR 604.00	EUR 955.00
339-549-368	25 mm	EUR 370.00	EUR 516.00	EUR 955.00	EUR 1540.00

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<sup>-2</sup>**  
 Purity..... **99.99+%** Support..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disc diam.</b>	<b>1 disc</b>	<b>2discs</b>	<b>5discs</b>	<b>10discs</b>
237-823-507	10 mm	EUR 273.00	EUR 370.00	EUR 663.00	EUR 1054.00

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<sup>-2</sup>**  
 Purity..... **99.99+%** Support..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disc diam.</b>	<b>1 disc</b>	<b>2discs</b>	<b>5discs</b>	<b>10discs</b>
760-097-541	10 mm	EUR 302.00	EUR 415.00	EUR 752.00	EUR 1202.00
523-941-592	25 mm	EUR 452.00	EUR 640.00	EUR 1202.00	

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<sup>-2</sup>**  
 Purity..... **99.99+%** Support..... **Permanent Mylar 3.5μm**

	<b>Quantity</b>				
<b>Web Code</b>	<b>Disc diam.</b>	<b>1 disc</b>	<b>2discs</b>	<b>5discs</b>	<b>10discs</b>
385-989-809	10 mm	EUR 322.00	EUR 445.00	EUR 813.00	EUR 1304.00
091-537-380	25 mm	EUR 486.00	EUR 690.00	EUR 1304.00	EUR 2121.00

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<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Permanent Mylar 3.5µm**

Web Code	Disc diam.	Quantity			
		1 disc	2discs	5discs	10discs
877-860-403	10 mm	EUR 343.00	EUR 476.00	EUR 874.00	EUR 1406.00

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<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Permanent Mylar 3.5µm**

Web Code	Disc diam.	Quantity			
		1 disc	2discs	5discs	10discs
192-291-155	10 mm	EUR 373.00	EUR 521.00	EUR 966.00	EUR 1558.00

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<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Removable**

Web Code	Disc diam.	Quantity		
		1 disc	2discs	5discs
122-312-230	10 mm	EUR 415.00	EUR 583.00	EUR 1089.00

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<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Removable**

Web Code	Disc diam.	Quantity		
		1 disc	2discs	5discs
470-781-293	10 mm	EUR 445.00	EUR 629.00	EUR 1180.00

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<sup>-2</sup>**  
 Purity ..... **99.99+%** Support ..... **Removable**

Web Code	Disc diam.	Quantity		
		1 disc	2discs	5discs
661-356-418	10 mm	EUR 521.00	EUR 743.00	EUR 1408.00

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	EUR 403.00	EUR 567.00

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
559-947-430 686-204-402	25 x 25 mm	EUR 383.00	EUR 503.00	EUR 750.00	EUR 1025.00
	50 x 50 mm	EUR 651.00	EUR 882.00		

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
907-750-868 537-787-854	25 x 25 mm	EUR 369.00	EUR 484.00	EUR 720.00	EUR 995.00
	50 x 50 mm	EUR 624.00	EUR 843.00		

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	EUR 356.00	EUR 465.00	EUR 690.00	EUR 969.00
50 x 50 mm	EUR 598.00	EUR 807.00		
100 x 100 mm	EUR 1400.00			

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	EUR 344.00	EUR 447.00	EUR 662.00
50 x 50 mm	EUR 572.00	EUR 771.00	
100 x 100 mm	EUR 1359.00		

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	EUR 332.00	EUR 431.00	EUR 636.00	EUR 923.00
50 x 50 mm	EUR 549.00	EUR 738.00	EUR 1665.00	
100 x 100 mm	EUR 1326.00	EUR 2547.00		
150 x 150 mm	EUR 2840.00			

**Sizes LT**

**Web Code**

767-738-754  
 046-703-339

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 415.00	EUR 539.00	EUR 795.00	EUR 1154.00
50 x 50 mm	EUR 824.00	EUR 1107.00	EUR 2498.00	

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	EUR 329.00	EUR 426.00	EUR 628.00	EUR 899.00
50 x 50 mm	EUR 542.00	EUR 728.00	EUR 1617.00	
100 x 100 mm	EUR 1288.00	EUR 2469.00		
150 x 150 mm	EUR 2753.00			

**Sizes LT**

**Web Code**

652-240-210  
 452-202-835

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 394.00	EUR 511.00	EUR 754.00	EUR 1078.00
50 x 50 mm	EUR 705.00	EUR 946.00	EUR 2102.00	

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	EUR 317.00	EUR 410.00	EUR 603.00	EUR 879.00
50 x 50 mm	EUR 519.00	EUR 696.00	EUR 1577.00	
100 x 100 mm	EUR 1256.00	EUR 2406.00		
150 x 150 mm	EUR 2683.00			

**Sizes LT**

**Web Code**

694-372-781  
 933-237-745

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 381.00	EUR 492.00	EUR 724.00	EUR 1055.00
50 x 50 mm	EUR 675.00	EUR 905.00	EUR 2050.00	

**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	EUR 364.00	EUR 445.00	EUR 638.00
6 mm	EUR 422.00	EUR 526.00	EUR 770.00
8 mm	EUR 480.00	EUR 609.00	EUR 903.00
10 mm	EUR 538.00	EUR 693.00	EUR 1039.00
15 mm	EUR 680.00	EUR 896.00	EUR 1832.00
25 mm	EUR 1050.00		

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	EUR 307.00	EUR 396.00	EUR 580.00	EUR 866.00
50 x 50 mm	EUR 499.00	EUR 684.00	EUR 1551.00	
100 x 100 mm	EUR 1235.00	EUR 2365.00		
150 x 150 mm	EUR 2636.00			

**Sizes LT**

**Web Code**

949-700-765  
 490-414-919

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 338.00	EUR 435.00	EUR 638.00	EUR 953.00
50 x 50 mm	EUR 624.00	EUR 855.00	EUR 1939.00	

**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	EUR 359.00	EUR 437.00	EUR 625.00
6 mm	EUR 413.00	EUR 514.00	EUR 750.00
8 mm	EUR 468.00	EUR 593.00	EUR 878.00
10 mm	EUR 524.00	EUR 672.00	EUR 1026.00
15 mm	EUR 659.00	EUR 865.00	EUR 1806.00
25 mm	EUR 1035.00		

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	EUR 317.00	EUR 410.00	EUR 603.00	EUR 879.00
50 x 50 mm	EUR 519.00	EUR 696.00	EUR 1576.00	
100 x 100 mm	EUR 1255.00	EUR 2405.00		
150 x 150 mm	EUR 2681.00			

**Sizes LT**

**Web Code**

331-686-852  
 890-511-379

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 349.00	EUR 451.00	EUR 663.00	EUR 966.00
50 x 50 mm	EUR 649.00	EUR 870.00	EUR 1970.00	

**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	EUR 364.00	EUR 445.00	EUR 638.00
6 mm	EUR 422.00	EUR 526.00	EUR 770.00
8 mm	EUR 479.00	EUR 609.00	EUR 903.00
10 mm	EUR 538.00	EUR 693.00	EUR 1039.00
15 mm	EUR 680.00	EUR 895.00	EUR 1831.00
25 mm	EUR 1049.00		

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	EUR 306.00	EUR 394.00	EUR 577.00	EUR 857.00
50 x 50 mm	EUR 497.00	EUR 677.00	EUR 1534.00	
100 x 100 mm	EUR 1221.00	EUR 2336.00		
150 x 150 mm	EUR 2604.00			

**Sizes LT**

**Web Code**

025-273-652  
 010-368-206

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 336.00	EUR 433.00	EUR 635.00	EUR 943.00
50 x 50 mm	EUR 621.00	EUR 846.00	EUR 1917.00	

**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	EUR 358.00	EUR 436.00	EUR 624.00
6 mm	EUR 412.00	EUR 513.00	EUR 748.00
8 mm	EUR 467.00	EUR 591.00	EUR 874.00
10 mm	EUR 522.00	EUR 670.00	EUR 1018.00
15 mm	EUR 656.00	EUR 861.00	EUR 1788.00
25 mm	EUR 1025.00		

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	EUR 191.00
0.2 m	EUR 210.00
0.5 m	EUR 249.00
1 m	EUR 301.00
2 m	EUR 457.00

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	EUR 292.00	EUR 375.00	EUR 547.00
50 x 50 mm	EUR 470.00	EUR 646.00	
100 x 100 mm	EUR 1160.00		

**Sizes LT**

**Web Code**

042-059-006  
 267-345-854

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 322.00	EUR 412.00	EUR 602.00
50 x 50 mm	EUR 587.00	EUR 808.00	

**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	EUR 350.00	EUR 425.00	EUR 607.00
6 mm	EUR 401.00	EUR 497.00	EUR 722.00
8 mm	EUR 452.00	EUR 569.00	EUR 840.00
10 mm	EUR 503.00	EUR 643.00	EUR 983.00
15 mm	EUR 628.00	EUR 821.00	

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**

**Web Code**

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

Width **0.127mm**

**Quantity**

Length	1 Reel
	0.1 m
0.2 m	EUR 202.00
0.5 m	EUR 262.00
1 m	EUR 333.00
2 m	EUR 439.00

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**

**Web Code**

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

Width **0.38mm**

**Quantity**

Length	1 Reel
	0.1 m
0.2 m	EUR 225.00
0.5 m	EUR 297.00
1 m	EUR 382.00
2 m	EUR 510.00

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**

**Web Code**

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

Width **0.508mm**

**Quantity**

Length	1 Reel
	0.1 m
0.2 m	EUR 242.00
0.5 m	EUR 325.00
1 m	EUR 421.00
2 m	EUR 565.00

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	EUR 269.00	EUR 341.00	EUR 495.00	EUR 760.00
50 x 50 mm	EUR 423.00	EUR 599.00	EUR 1339.00	
100 x 100 mm	EUR 1066.00	EUR 2025.00		
150 x 150 mm	EUR 2254.00			

**Sizes LT**

**Web Code**

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

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 296.00	EUR 376.00	EUR 544.00	EUR 836.00
50 x 50 mm	EUR 465.00	EUR 659.00	EUR 1473.00	
100 x 100 mm	EUR 1225.00	EUR 2329.00		

**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	EUR 337.00	EUR 406.00	EUR 577.00
6 mm	EUR 381.00	EUR 469.00	EUR 678.00
8 mm	EUR 425.00	EUR 532.00	EUR 780.00
10 mm	EUR 470.00	EUR 596.00	EUR 928.00
15 mm	EUR 578.00	EUR 767.00	EUR 1590.00
25 mm	EUR 916.00		

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.



**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	EUR 291.00	EUR 373.00	EUR 544.00	EUR 808.00
50 x 50 mm	EUR 467.00	EUR 638.00	EUR 1435.00	
100 x 100 mm	EUR 1142.00	EUR 2178.00		
150 x 150 mm	EUR 2426.00			

**Sizes LT**

**Web Code**

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

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 320.00	EUR 410.00	EUR 598.00	EUR 888.00
50 x 50 mm	EUR 513.00	EUR 701.00	EUR 1578.00	
100 x 100 mm	EUR 1428.00	EUR 2722.00		

**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	EUR 350.00	EUR 424.00	EUR 605.00
6 mm	EUR 399.00	EUR 495.00	EUR 719.00
8 mm	EUR 450.00	EUR 567.00	EUR 836.00
10 mm	EUR 501.00	EUR 640.00	EUR 972.00
15 mm	EUR 625.00	EUR 816.00	EUR 1687.00
25 mm	EUR 970.00		

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	EUR 268.00	EUR 341.00	EUR 493.00
50 x 50 mm	EUR 421.00	EUR 596.00	
100 x 100 mm	EUR 1059.00		

**Sizes LT**

**Web Code**

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 295.00	EUR 375.00	EUR 543.00
50 x 50 mm	EUR 464.00	EUR 655.00	
100 x 100 mm	EUR 1323.00		

**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	EUR 337.00	EUR 406.00	EUR 577.00
6 mm	EUR 380.00	EUR 468.00	EUR 676.00
8 mm	EUR 424.00	EUR 531.00	EUR 778.00
10 mm	EUR 469.00	EUR 594.00	EUR 924.00
15 mm	EUR 577.00	EUR 763.00	

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

Length	Quantity	
	1 Reel	
0.05 m	EUR 152.00	
0.1 m	EUR 174.00	
0.2 m	EUR 206.00	
0.5 m	EUR 337.00	

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	EUR 301.00	EUR 392.00	EUR 579.00
50 x 50 mm	EUR 509.00	EUR 687.00	
100 x 100 mm	EUR 1020.00		

**Sizes LT**

**Web Code**

028-124-967  
 724-407-594  
 128-071-432

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 331.00	EUR 432.00	EUR 637.00
50 x 50 mm	EUR 560.00	EUR 755.00	
100 x 100 mm	EUR 1224.00		

**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	EUR 358.00	EUR 459.00	EUR 709.00
6 mm	EUR 423.00	EUR 552.00	EUR 859.00
8 mm	EUR 489.00	EUR 647.00	EUR 1013.00
10 mm	EUR 555.00	EUR 743.00	EUR 1171.00
15 mm	EUR 716.00	EUR 972.00	

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	EUR 337.00	EUR 444.00	EUR 661.00
50 x 50 mm	EUR 582.00	EUR 790.00	
100 x 100 mm	EUR 1373.00		

**Sizes LT**

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 371.00	EUR 488.00	EUR 727.00
50 x 50 mm	EUR 640.00	EUR 869.00	
100 x 100 mm	EUR 1648.00		

**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	EUR 381.00	EUR 491.00	EUR 761.00
6 mm	EUR 458.00	EUR 602.00	EUR 940.00
8 mm	EUR 535.00	EUR 714.00	EUR 1124.00
10 mm	EUR 614.00	EUR 828.00	EUR 1313.00
15 mm	EUR 804.00	EUR 1099.00	

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	EUR 174.00	
0.1 m	EUR 206.00	
0.2 m	EUR 287.00	
0.5 m	EUR 572.00	

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	EUR 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	EUR 262.00	EUR 337.00	EUR 491.00
50 x 50 mm	EUR 430.00	EUR 681.00	
100 x 100 mm	EUR 1259.00		

**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	EUR 334.00	EUR 425.00	EUR 655.00
6 mm	EUR 387.00	EUR 501.00	EUR 779.00
8 mm	EUR 441.00	EUR 579.00	EUR 906.00
10 mm	EUR 496.00	EUR 658.00	EUR 1164.00
15 mm	EUR 627.00	EUR 931.00	

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	EUR 333.00	EUR 416.00	POA
50 x 50 mm	EUR 610.00	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	EUR 369.00	EUR 445.00	EUR 611.00
6 mm	EUR 430.00	EUR 531.00	EUR 758.00
8 mm	EUR 491.00	EUR 619.00	EUR 1084.00
10 mm	EUR 552.00	EUR 740.00	EUR 1503.00
15 mm	EUR 768.00	EUR 1312.00	

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	EUR 305.00	EUR 423.00	POA
50 x 50 mm	EUR 743.00	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	EUR 362.00	EUR 464.00	EUR 719.00
6 mm	EUR 429.00	EUR 561.00	EUR 1006.00
8 mm	EUR 498.00	EUR 695.00	EUR 1463.00
10 mm	EUR 567.00	EUR 930.00	EUR 2051.00
15 mm	EUR 952.00	EUR 1720.00	

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	EUR 366.00	EUR 605.00	POA
50 x 50 mm	EUR 1067.00	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	EUR 372.00	EUR 454.00	EUR 780.00
6 mm	EUR 432.00	EUR 635.00	EUR 1244.00
8 mm	EUR 562.00	EUR 895.00	EUR 1895.00
10 mm	EUR 729.00	EUR 1230.00	EUR 2732.00
15 mm	EUR 1296.00	EUR 2364.00	

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	EUR 328.00	EUR 531.00	POA
50 x 50 mm	EUR 918.00	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	EUR 378.00	EUR 462.00	EUR 723.00
6 mm	EUR 436.00	EUR 584.00	EUR 1118.00
8 mm	EUR 517.00	EUR 806.00	EUR 1671.00
10 mm	EUR 659.00	EUR 1090.00	EUR 2381.00
15 mm	EUR 1137.00	EUR 2045.00	

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	EUR 398.00	EUR 670.00	POA
50 x 50 mm	EUR 1197.00	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	EUR 380.00	EUR 470.00	EUR 831.00
6 mm	EUR 455.00	EUR 681.00	EUR 1360.00
8 mm	EUR 603.00	EUR 978.00	EUR 2101.00
10 mm	EUR 794.00	EUR 1359.00	EUR 3054.00
15 mm	EUR 1439.00	EUR 2649.00	

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
EUR 221.00	EUR 276.00	EUR 406.00	POA
EUR 473.00	EUR 855.00	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
EUR 397.00	EUR 509.00	EUR 900.00
EUR 501.00	EUR 774.00	EUR 1665.00
EUR 687.00	EUR 1202.00	EUR 2736.00
EUR 963.00	EUR 1753.00	EUR 4113.00
EUR 1886.00	EUR 3600.00	

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
EUR 227.00	EUR 292.00	EUR 559.00	EUR 1004.00	POA
EUR 253.00	EUR 382.00	EUR 784.00	POA	POA
EUR 623.00	EUR 1133.00	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
EUR 470.00	EUR 731.00	EUR 1338.00
EUR 665.00	EUR 1130.00	
EUR 944.00	EUR 1689.00	
EUR 1303.00		

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
EUR 276.00	EUR 342.00	EUR 633.00	POA
EUR 728.00	EUR 1331.00	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**  
 Temper ..... **As rolled**

Purity ..... **99.95%**  
 Condition ..... **Polished on both sides**

**Discs**

**Web Code**  
 423-075-019

**Quantity**  
**Diameter**      **1 discs**  
 12 mm            EUR POA

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

**AU000392**

Thickness ..... **1.0mm**  
 Temper ..... **As rolled**

Purity ..... **99.95%**  
 Condition ..... **Polished on both sides**

**Size**

**Web Code**  
 048-264-932

**Quantity**  
**Size**              **1pc**  
 10 x 10 mm      POA

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

**AU000390**

Thickness ..... **1.0mm**  
 Temper ..... **As rolled**

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

**Size**

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

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

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

**AU000393**

Thickness ..... **1.0mm**  
 Temper ..... **As rolled**

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

**Size**

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

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

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

**AU000395**

Thickness ..... **1.5mm**  
 Temper ..... **As rolled**

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

**Size**

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

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

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

**AU000396**

Thickness ..... **1.5mm**  
 Temper ..... **As rolled**

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

**Size**

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

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

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

**AU000400**

Thickness ..... **2.0mm**  
 Temper ..... **As rolled**

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

**Size**

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

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

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

**AU000401**

Thickness ..... **2.0mm**  
 Temper ..... **As rolled**

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

**Size**

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

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

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

**Metal – Gold**

**Gold**

**Au**



## Sputtering Target

<b>AU009100</b>	Thickness ..... <b>0.1mm</b> Purity ..... <b>99.95%</b>	Tolerance ..... <b>15%</b>
<b>Size</b> <b>Web Code</b> 678-449-863 767-152-206 269-620-278 631-109-991	<b>Disc diam.</b> 25 mm 50 mm 54 mm 57 mm	<b>Quantity</b> <b>1disc</b> POA POA POA POA
Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
<b>AU009202</b>	Thickness ..... <b>0.2mm</b> Purity ..... <b>99.95%</b>	Tolerance ..... <b>15%</b>
<b>Size</b> <b>Web Code</b> 909-757-633 700-195-918 049-632-480 145-707-263	<b>Disc diam.</b> 25 mm 50 mm 54 mm 57 mm	<b>Quantity</b> <b>1disc</b> POA POA POA POA
Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
<b>AU009203</b>	Thickness ..... <b>0.5mm</b> Purity ..... <b>99.95%</b>	Tolerance ..... <b>15%</b>
<b>Size</b> <b>Web Code</b> 448-157-218 678-827-311 935-007-932	<b>Disc diam.</b> 25 mm 50 mm 54 mm	<b>Quantity</b> <b>1disc</b> POA POA POA
Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
<b>AU009205</b>	Thickness ..... <b>1.0mm</b>	High Purity ..... <b>99.999%</b>
<b>Size</b> <b>Web Code</b> 369-712-979 627-540-266	<b>Disc diam.</b> 10 mm 25.4 mm	<b>Quantity</b> <b>1disc</b> 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.		
<b>AU009206</b>	Thickness ..... <b>1.0mm</b>	Purity ..... <b>99.95%</b>
<b>Size</b> <b>Web Code</b> 611-718-263 484-695-179 966-679-037 300-208-255	<b>Disc diam.</b> 25 mm 50 mm 54 mm 57 mm	<b>Quantity</b> <b>1disc</b> POA POA POA POA
Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
<b>AU009204</b>	Thickness ..... <b>2.0mm</b>	Purity ..... <b>99.95%</b>
<b>Size</b> <b>Web Code</b> 653-414-251 336-338-952	<b>Disc diam.</b> 25 mm 50 mm	<b>Quantity</b> <b>1disc</b> POA POA
Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
<b>AU009207</b>	Thickness ..... <b>2.0mm</b>	High Purity ..... <b>99.999%</b>
<b>Size</b> <b>Web Code</b> 928-216-201 345-950-847	<b>Disc diam.</b> 25.4 mm 50.8 mm	<b>Quantity</b> <b>1disc</b> 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.		
<b>AU009208</b>	Thickness ..... <b>3mm</b>	Purity ..... <b>99.95%</b>
<b>Size</b> <b>Web Code</b> 567-037-208 802-532-440	<b>Disc diam.</b> 25 mm 50 mm	<b>Quantity</b> <b>1disc</b> POA POA
Typical Analysis : Ag 80, Cu 10, Fe 3, Mg 1, Si 1. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		

**Metal – Gold**

**Gold**

**Au**



**Sputtering Target**

**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**

Quantity	1pc	2pcs
10 x 10 mm	EUR 231.00	EUR 297.00
20 x 20 mm	EUR 355.00	EUR 473.00
50 x 50 mm	EUR 779.00	

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**

Quantity	1pc	2pcs	5pcs
10 x 10 mm	EUR 206.00	EUR 262.00	EUR 376.00
25 x 25 mm	EUR 355.00	EUR 472.00	
50 x 50 mm	EUR 729.00		

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**

Quantity	1pc	2pcs	5pcs
10 x 10 mm	EUR 153.00	EUR 185.00	EUR 247.00
25 x 25 mm	EUR 236.00	EUR 303.00	
50 x 50 mm	EUR 426.00		

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**

Quantity	1pc	2pcs	5pcs
20 x 20 mm	EUR 238.00	EUR 298.00	EUR 424.00
50 x 50 mm	EUR 385.00	EUR 637.00	
100 x 100 mm	EUR 1062.00		

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

**Length**  
1 m  
5 m  
10 m  
20 m

**Quantity**

**1 Reel**  
EUR 337.00  
EUR 583.00  
EUR 781.00  
EUR 1017.00

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**

<b>AU005115</b>	Diameter..... <b>0.0125mm</b>	Purity..... <b>99.99+%</b>
	Temper..... <b>Hard</b>	
	<b>Length</b>	<b>Quantity</b>
	<b>Web Code</b>	<b>Length</b> <b>1 Reel</b>
	239-706-076	1 m    EUR 337.00
	318-610-760	5 m    EUR 583.00
	276-553-646	10 m   EUR 781.00
	656-033-142	20 m   EUR 1017.00

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.

<b>AU005118</b>	Diameter..... <b>0.0175mm</b>	Purity..... <b>99.99+%</b>
	Temper..... <b>Annealed</b>	
	<b>Length</b>	<b>Quantity</b>
	<b>Web Code</b>	<b>Length</b> <b>1 Reel</b>
	827-001-426	1 m    EUR 277.00
	258-902-287	5 m    EUR 448.00
	126-413-079	10 m   EUR 590.00
	692-379-952	20 m   EUR 743.00

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

<b>AU005120</b>	Diameter..... <b>0.025mm</b>	Purity..... <b>99.99+%</b>
	Temper..... <b>Hard</b>	
	<b>Length</b>	<b>Quantity</b>
	<b>Web Code</b>	<b>Length</b> <b>1 Reel</b>
	238-089-224	1 m    EUR 152.00
	145-229-036	5 m    EUR 220.00
	153-635-479	10 m   EUR 251.00
	204-435-425	20 m   EUR 296.00
	403-467-045	50 m   EUR 390.00
	013-643-527	100 m  EUR 546.00

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

<b>AU005121</b>	Diameter..... <b>0.025mm</b>	Purity..... <b>99.99+%</b>
	Temper..... <b>Annealed</b>	
	<b>Length</b>	<b>Quantity</b>
	<b>Web Code</b>	<b>Length</b> <b>1 Reel</b>
	352-911-455	1 m    EUR 152.00
	622-281-780	5 m    EUR 220.00
	739-110-568	10 m   EUR 251.00
	797-996-187	20 m   EUR 296.00
	485-823-112	50 m   EUR 390.00
	469-690-710	100 m  EUR 546.00

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

<b>AU005125</b>	Diameter..... <b>0.05mm</b>	Purity..... <b>99.99+%</b>
	Temper..... <b>Hard</b>	
	<b>Length</b>	<b>Quantity</b>
	<b>Web Code</b>	<b>Length</b> <b>1 Reel</b>
	671-690-436	1 m    EUR 257.00
	346-200-166	5 m    EUR 410.00
	051-047-078	10 m   EUR 525.00
	303-108-501	20 m   EUR 688.00

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

<b>AU005126</b>	Diameter..... <b>0.05mm</b>	Purity..... <b>99.99+%</b>
	Temper..... <b>Annealed</b>	
	<b>Length</b>	<b>Quantity</b>
	<b>Web Code</b>	<b>Length</b> <b>1 Reel</b>
	800-913-238	1 m    EUR 257.00
	966-082-456	5 m    EUR 410.00
	845-109-071	10 m   EUR 525.00
	815-294-545	20 m   EUR 688.00

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

<b>AU005130</b>	Diameter..... <b>0.06mm</b>	Purity..... <b>99.99+%</b>
	Temper..... <b>Hard</b>	
	<b>Length</b>	<b>Quantity</b>
	<b>Web Code</b>	<b>Length</b> <b>1 Reel</b>
	554-430-451	1 m    EUR 257.00
	303-802-399	5 m    EUR 410.00
	975-291-816	10 m   EUR 525.00
	959-561-945	20 m   EUR 688.00

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** High Purity ..... **99.99%**  
 Temper ..... **Annealed**

**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	EUR 150.00
0.5 m	EUR 182.00
1 m	EUR 218.00
2 m	EUR 273.00
5 m	EUR 391.00
10 m	EUR 622.00

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

**AU005133**

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

**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	EUR 152.00
0.5 m	EUR 185.00
1 m	EUR 222.00
2 m	EUR 279.00
5 m	EUR 400.00
10 m	EUR 632.00

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

**AU005135**

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

**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	EUR 153.00
0.5 m	EUR 186.00
1 m	EUR 224.00
2 m	EUR 282.00
5 m	EUR 405.00
10 m	EUR 648.00

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

**AU005137**

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

**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	EUR 133.00
0.2 m	EUR 145.00
0.5 m	EUR 172.00
1 m	EUR 209.00
2 m	EUR 315.00
5 m	EUR 625.00

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

**AU005140**

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

**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	EUR 140.00
0.2 m	EUR 156.00
0.5 m	EUR 188.00
1 m	EUR 266.00
2 m	EUR 428.00
5 m	EUR 907.00

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

**AU005145**

Diameter ..... **0.33mm** Purity ..... **99.95%**  
 Temper ..... **As drawn**

**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	EUR 145.00
0.2 m	EUR 163.00
0.5 m	EUR 209.00
1 m	EUR 315.00
2 m	EUR 526.00

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	EUR 153.00
0.2 m	EUR 174.00
0.5 m	EUR 251.00
1 m	EUR 398.00
2 m	EUR 693.00

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	EUR 192.00
0.1 m	EUR 240.00
0.2 m	EUR 309.00
0.5 m	EUR 449.00
1 m	EUR 820.00

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	EUR 219.00
0.1 m	EUR 278.00
0.2 m	EUR 361.00
0.5 m	EUR 636.00
1 m	EUR 1195.00

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	EUR 163.00
0.1 m	EUR 195.00
0.2 m	EUR 243.00
0.5 m	EUR 386.00
1 m	EUR 680.00

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	EUR 192.00
0.1 m	EUR 240.00
0.2 m	EUR 309.00
0.5 m	EUR 449.00
1 m	EUR 820.00

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	EUR 184.00
0.1 m	EUR 226.00
0.2 m	EUR 286.00
0.5 m	EUR 586.00
1 m	EUR 1087.00

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	EUR 282.00
0.2 m	EUR 364.00
0.5 m	EUR 688.00
1 m	EUR 1280.00

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 EUR 196.00  
 0.1 m EUR 264.00  
 0.2 m EUR 448.00  
 0.5 m EUR 999.00

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 EUR 244.00  
 0.1 m EUR 337.00  
 0.2 m EUR 558.00  
 0.5 m EUR 1223.00

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 EUR 289.00  
 0.1 m EUR 371.00  
 0.2 m EUR 610.00  
 0.5 m EUR 1380.00

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 EUR 376.00  
 0.5 m EUR 517.00  
 1 m EUR 855.00

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 EUR 172.00  
 1 m EUR 211.00  
 2 m EUR 330.00  
 5 m EUR 679.00

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 EUR 183.00  
 1 m EUR 242.00  
 2 m EUR 394.00  
 5 m EUR 838.00

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 EUR 183.00  
 1 m EUR 242.00  
 2 m EUR 394.00  
 5 m EUR 838.00

Typical Analysis :

**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	EUR 348.00
1 m	EUR 590.00
2 m	EUR 1073.00
5 m	EUR 2437.00

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	EUR 237.00
1 m	EUR 382.00
2 m	EUR 673.00

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	EUR 151.00
0.2 m	EUR 173.00
0.5 m	EUR 219.00
1 m	EUR 327.00

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	EUR 134.00

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	EUR 187.00
1 m	EUR 256.00
2 m	EUR 422.00
5 m	EUR 908.00

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	EUR 137.00
0.2 m	EUR 156.00
0.5 m	EUR 195.00
1 m	EUR 294.00
2 m	EUR 497.00

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	EUR 319.00	EUR 444.00
50 mm	EUR 417.00	EUR 729.00
100 mm	EUR 702.00	

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

Length	Quantity	
	1pc	2pcs
25 mm	EUR 366.00	EUR 604.00
50 mm	EUR 578.00	EUR 1050.00
100 mm	EUR 1023.00	

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

Length	Quantity		
	1pc	2pcs	5pcs
10 mm	EUR 354.00	EUR 560.00	EUR 1203.00
25 mm	EUR 633.00	EUR 1161.00	
50 mm	EUR 1134.00		

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

**AU007940**

Diameter ..... **4.0mm**  
 Temper ..... **As drawn**

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

**Size**

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

Length	Quantity	
	1pc	2pcs
10 mm	EUR 489.00	EUR 872.00
25 mm	EUR 1023.00	

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

**AU007950**

Diameter ..... **5.0mm**  
 Temper ..... **As drawn**

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

**Size**

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

Length	Quantity	
	1pc	2pcs
10 mm	EUR 689.00	EUR 1272.00
25 mm	EUR 1523.00	

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

**AU007941**

Diameter ..... **5.0mm**  
 Temper ..... **As drawn**

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

**Size**

**Web Code**  
 299-814-922

Length	Quantity	
	1pc	2pcs
4 mm	EUR 366.00	EUR 604.00

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

**AU007960**

Diameter ..... **6.0mm**  
 Temper ..... **As drawn**

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

**Size**

**Web Code**  
 988-120-978

Length	Quantity	
	1pc	2pcs
6 mm	EUR 613.00	EUR 1120.00

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

**AU007961**

Diameter ..... **6.0mm**  
 Temper ..... **As drawn**

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

**Size**

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

Length	Quantity	
	1pc	2pcs
10 mm	EUR 934.00	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

Length	Quantity	
	1pc	2pcs
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	EUR 440.00	EUR 559.00	EUR 902.00

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
Web Code			
348-981-704	50 mm	EUR 354.00	EUR 452.00
732-712-807	100 mm	EUR 447.00	EUR 739.00
589-112-066	200 mm	EUR 735.00	

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
Web Code			
061-829-407	50 mm	EUR 332.00	EUR 403.00
048-859-375	100 mm	EUR 398.00	EUR 599.00
599-492-641	200 mm	EUR 593.00	

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
Web Code			
702-234-087	50 mm	EUR 323.00	EUR 391.00
555-395-240	100 mm	EUR 385.00	EUR 507.00
424-412-308	200 mm	EUR 501.00	

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
Web Code			
180-831-788	50 mm	EUR 481.00	EUR 794.00
048-397-675	100 mm	EUR 789.00	EUR 1409.00
680-498-273	200 mm	EUR 1404.00	

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
Web Code		
738-962-618	61 mm	EUR 649.00

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	EUR 365.00	EUR 486.00	EUR 964.00
481-645-315	100 mm	EUR 481.00	EUR 794.00	
379-967-892	200 mm	EUR 788.00		

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
Web Code			
701-617-803	50 mm	EUR 333.00	EUR 405.00
869-903-500	100 mm	EUR 400.00	EUR 606.00
737-947-418	200 mm	EUR 601.00	

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

**Metal – Gold**

**Gold**

**Au**



**Tube**

**AU007290** Outside Diameter . . . . . **3.0mm** Wall Thickness . . . . . **0.10mm**  
 Inside Diameter . . . . . **2.8mm** Purity . . . . . **99.95%**  
 Temper . . . . . **As drawn**

Size	Web Code	Length	Quantity		
			1pc	2pcs	5pcs
	819-037-537	50 mm	EUR 370.00	EUR 503.00	EUR 1005.00
	055-869-698	100 mm	EUR 497.00	EUR 827.00	
	716-273-950	200 mm	EUR 822.00		

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

**AU007650** Outside Diameter . . . . . **8mm** Wall Thickness . . . . . **0.1mm**  
 Inside Diameter . . . . . **7.8mm** Purity . . . . . **99.95%**  
 Temper . . . . . **As drawn**

Size	Web Code	Length	Quantity	
			1pc	2pcs
	516-019-249	25 mm	EUR 401.00	EUR 611.00
	929-602-862	50 mm	EUR 606.00	EUR 1044.00
	989-899-573	100 mm	EUR 1038.00	

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

**AU007651** Outside Diameter . . . . . **8mm** Wall Thickness . . . . . **0.1mm**  
 Inside Diameter . . . . . **7.8mm** Purity . . . . . **99.95%**  
 Temper . . . . . **As drawn**

Size	Web Code	Length	Quantity
			1pc
	353-201-827	200 mm	POA
	975-157-040	500 mm	POA
	948-045-447	1000 mm	POA

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

**AU007700** Outside Diameter . . . . . **10.0mm** Wall Thickness . . . . . **0.15mm**  
 Inside Diameter . . . . . **9.7mm** Purity . . . . . **99.95%**  
 Temper . . . . . **As drawn**

Size	Web Code	Length	Quantity	
			1pc	2pcs
	769-614-369	50 mm	EUR 1026.00	EUR 1883.00
	260-343-209	100 mm	EUR 1878.00	

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



**Powder**

**AU006022** Mean Particle size . . . . . **0.015micron** Purity . . . . . **99.95%**  
 Condition . . . . . **Nanopowder**



Web Code	Quantity	Weight	1 Pot
897-593-348	2 g	POA	
359-069-913	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	Quantity	Weight	1 Pot
429-518-101	2 g	EUR 461.00	

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

**AU006015** Max. Particle size . . . . . **45micron** Purity . . . . . **99.95%**



Web Code	Quantity	Weight	1 Pot
943-058-108	2 g	EUR 461.00	

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

**AU006010** Max. Particle size . . . . . **250micron** Purity . . . . . **99.95%**



Web Code	Quantity	Weight	1 Pot
293-366-764	2 g	EUR 427.00	

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

**Metal – Gold**

**Gold**

**Au**



**Lump**

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

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

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

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

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

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



**Sphere**

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

<b>Quantity</b>	<b>Quantity</b>	<b>1 Pot</b>
<b>Web Code</b>	<b>Spheres</b>	
776-575-743	20 pcs	EUR 166.00
730-799-167	50 pcs	EUR 239.00
715-523-478	100 pcs	EUR 341.00
800-824-795	200 pcs	EUR 519.00

Typical Analysis :



**Single Crystal**

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

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

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

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

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
142-765-490		EUR 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**

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

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

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

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
548-217-634		EUR 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**

<b>Web Code</b>	<b>Quantity</b>	<b>1pc</b>
395-540-068		EUR 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**  
EUR POA

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

**Metal – Gold**

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