

# 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**

Fl. 23, 758 Nanjing Road West  
SHANGHAI  
200040

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

# Standard Price List for Palladium

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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**

Ceramics: ANSI B18.6.7M-1985



**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**

Ceramics: ANSI B18.2.4.1M-1979  
 (R1995)



**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**

|           |          |
|-----------|----------|
| Ceramics: | see item |
|-----------|----------|



## Product Descriptions



### Wire

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

#### Tolerances

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

## Hazards Information

### HAZARDS

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

### HAZARD SYMBOLS



C

#### Corrosive

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



D

#### Dangerous when wet

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



E

#### Explosive

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



F+

#### Extremely Flammable

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



Xn

#### Harmful

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



F

#### Highly flammable

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



Xi

#### Irritant

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



R

#### Radioactive

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



T

#### Toxic

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



T+

#### Very Toxic

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

## General Information

### Analyses

#### Typical Analysis :

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

#### Purity

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

#### High Purity

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

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

### Supports

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

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

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

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

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

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

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

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

### Vacuum tight

Vacuum tight foils show no detectable leakage when tested with a helium mass spectrometer with a sensitivity of  $10^{-9}$  atm-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**

Fl. 23, 758 Nanjing Road West  
SHANGHAI  
200040  
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

## Palladium

### Pd

Discovered in 1803 by W.H. Woollaston in London, England.

Palladium is a member of the platinum group of metals. It is silvery white in colour, is malleable and ductile, and is one of the most reactive in the group. It has an abundance of  $6 \times 10^{-6}$  in the earth's crust.

Palladium has good corrosion resistance but is soluble in oxidising acids and fused alkalis. It readily absorbs hydrogen gas (up to 900 times its own volume), but its main use is as a catalyst for hydrogenation. Palladium is also used within the electronics industry and in some dental applications.

|  |                     |   |      |  |  |
|--|---------------------|---|------|--|--|
| <b>Atomic Properties</b>                 |                     | <b>Physical Properties</b>                  |      |  |  |
| Atomic number                            | 46                  | Boiling point                               |      | 3140 C                                   |  |
| Atomic radius - Goldschmidt              | 0.137 nm            | Density @20C                                |      | 12.0 g cm <sup>-3</sup>                  |  |
| Atomic weight                            | 106.42 amu          | Melting point                               |      | 1554 C                                   |  |
| Crystal structure                        | Face centred cubic  | <b>Electrical Properties</b>                |      |  |  |
| Electronic structure                     | Kr 4d <sup>10</sup> | Electrical resistivity @20C                 |      | 10.8 μOhmcm                              |  |
| Photo-electric work function             | 5.0 eV              | Temperature coefficient @0-100C             |      | 0.0042 K <sup>-1</sup>                   |  |
| Thermal neutron absorption cross-section | 6.0 Barns           | Thermal emf against Pt (cold 0C - hot 100C) |      | -0.57 mV                                 |  |
| Valences shown                           | 2, 3, 4             | <b>Thermal Properties</b>                   |      |  |  |
| Natural isotope distribution             |                     | Mass No.                                    | %    | Coefficient of thermal expansion @0-100C | 11.0 x10 <sup>-6</sup> K <sup>-1</sup> |
|  |                     | 102   | 1.0  | Latent heat of evaporation               | 3398 J g <sup>-1</sup>                 |
|  |                     | 104   | 11.0 | Latent heat of fusion                    | 157 J g <sup>-1</sup>                  |
|  |                     | 105   | 22.2 | Specific heat @25C                       | 244 J K <sup>-1</sup> kg <sup>-1</sup> |
|  |                     | 106   | 27.3 | Thermal conductivity @0-100C             | 71.8 W m <sup>-1</sup> K <sup>-1</sup> |
|  |                     | 108   | 26.7 | <b>Mechanical Properties</b>             |  |
|  |                     | 110   | 11.8 | Material condition                       | Soft Hard Polycrystalline              |
| Ionisation potential                     |                     | No.   | eV   | Bulk modulus                             | 187 GPa                                |
|  |                     | 1   | 8.3  | Hardness - Vickers                       | 40 100                                 |
|  |                     | 2   | 19.4 | Poisson's ratio                          | 0.39                                   |
|  |                     | 3   | 32.9 | Tensile modulus                          | 121 GPa                                |
|  |                     |   |      | Tensile strength                         | 140-195 325 MPa                        |
|  |                     |   |      | Yield strength                           | 34.5 205 MPa                           |



## Microfoil

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

**PD004300** Thinness ..... **0.05μm** Specific density ..... **63.6μg.cm<sup>-2</sup>**  
 Purity ..... **99.99%** Support ..... **Permanent Mylar 3.5μm**

|                 |                   |                 |               |               |                |
|-----------------|-------------------|-----------------|---------------|---------------|----------------|
| <b>Web Code</b> |                   | <b>Quantity</b> |               |               |                |
| 752-519-096     | <b>Disc diam.</b> | <b>1 disc</b>   | <b>2discs</b> | <b>5discs</b> | <b>10discs</b> |
| 110-015-645     | 10 mm             | GBP 204.00      | GBP 278.00    | GBP 502.00    | GBP 800.00     |
| 994-025-101     | 25 mm             | GBP 303.00      | GBP 428.00    | GBP 800.00    | GBP 1298.00    |
|                 | 50 mm             | GBP 428.00      | GBP 614.00    | GBP 1173.00   |                |

Typical Analysis : Starting Material : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.  
 This item is normally made to order for delivery within 4-5 weeks.

**PD004500** Thinness ..... **0.1μm** Specific density ..... **119.2μg.cm<sup>-2</sup>**  
 Purity ..... **99.99%** Support ..... **Permanent Mylar 3.5μm**

|                 |                   |                 |               |               |                |
|-----------------|-------------------|-----------------|---------------|---------------|----------------|
| <b>Web Code</b> |                   | <b>Quantity</b> |               |               |                |
| 284-062-352     | <b>Disc diam.</b> | <b>1 disc</b>   | <b>2discs</b> | <b>5discs</b> | <b>10discs</b> |
| 474-245-283     | 10 mm             | GBP 220.00      | GBP 303.00    | GBP 552.00    | GBP 883.00     |
| 082-082-771     | 25 mm             | GBP 331.00      | GBP 469.00    | GBP 883.00    | GBP 1436.00    |
|                 | 50 mm             | GBP 469.00      | GBP 676.00    | GBP 1298.00   |                |

Typical Analysis : Starting Material : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.  
 This item is normally made to order for delivery within 4-5 weeks.

**PD004600** Thinness ..... **0.25μm** Specific density ..... **303.4μg.cm<sup>-2</sup>**  
 Purity ..... **99.99%** Support ..... **Permanent Mylar 3.5μm**

|                 |                   |                 |               |               |                |
|-----------------|-------------------|-----------------|---------------|---------------|----------------|
| <b>Web Code</b> |                   | <b>Quantity</b> |               |               |                |
| 260-342-306     | <b>Disc diam.</b> | <b>1 disc</b>   | <b>2discs</b> | <b>5discs</b> | <b>10discs</b> |
| 848-882-979     | 10 mm             | GBP 245.00      | GBP 340.00    | GBP 626.00    | GBP 1007.00    |
| 795-806-384     | 25 mm             | GBP 372.00      | GBP 531.00    | GBP 1007.00   | GBP 1642.00    |
|                 | 50 mm             | GBP 531.00      | GBP 769.00    | GBP 1483.00   |                |

Typical Analysis : Starting Material : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.  
 This item is normally made to order for delivery within 4-5 weeks.

**PD004700** Thinness ..... **0.5μm** Specific density ..... **303.4μg.cm<sup>-2</sup>**  
 Purity ..... **99.99%** Support ..... **Permanent Mylar 3.5μm**

|                 |                   |                 |               |               |                |
|-----------------|-------------------|-----------------|---------------|---------------|----------------|
| <b>Web Code</b> |                   | <b>Quantity</b> |               |               |                |
| 529-307-628     | <b>Disc diam.</b> | <b>1 disc</b>   | <b>2discs</b> | <b>5discs</b> | <b>10discs</b> |
| 159-007-137     | 10 mm             | GBP 260.00      | GBP 355.00    | GBP 641.00    | GBP 1022.00    |
|                 | 25 mm             | GBP 387.00      | GBP 546.00    | GBP 1022.00   | GBP 1657.00    |

Typical Analysis : Starting Material : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.  
 This item is normally made to order for delivery within 4-5 weeks.

## Palladium

Pd



### Foil

|                 |                     |                 |                  |               |             |  |
|-----------------|---------------------|-----------------|------------------|---------------|-------------|--|
| <b>PD000170</b> | Thickness . . . . . | <b>0.0005mm</b> | Purity . . . . . | <b>99.75%</b> |             |  |
|                 | <b>Sizes LT</b>     |                 | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                 |                  |               |             |  |
|                 | 233-407-090         | <b>Size</b>     | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 283-462-496         | 25 x 25 mm      | GBP 322.00       | GBP 428.00    | GBP 645.00  |  |
|                 |                     | 50 x 50 mm      | GBP 563.00       | GBP 769.00    |             |  |

Typical Analysis : Ag 25, Al 40, Au 200, Bi 150, Ca 100, Cr 150, Cu 400, Fe 100, Mg 15, Mn 25, Ni 200, Pb 400, Pt 300, Rh 40, Si 40, Sn 30, Ti 10.

|                 |                     |                            |                  |               |             |  |
|-----------------|---------------------|----------------------------|------------------|---------------|-------------|--|
| <b>PD000180</b> | Thickness . . . . . | <b>0.00075mm</b>           | Purity . . . . . | <b>99.75%</b> |             |  |
|                 | Support . . . . .   | <b>Permanent Polyester</b> |                  |               |             |  |
|                 | <b>Sizes LT</b>     |                            | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                            |                  |               |             |  |
|                 | 690-749-168         | <b>Size</b>                | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 781-993-414         | 25 x 25 mm                 | GBP 304.00       | GBP 402.00    | GBP 604.00  |  |
|                 |                     | 50 x 50 mm                 | GBP 526.00       | GBP 717.00    |             |  |

Typical Analysis : Ag 25, Al 40, Au 200, Bi 150, Ca 100, Cr 150, Cu 400, Fe 100, Mg 15, Mn 25, Ni 200, Pb 400, Pt 300, Rh 40, Si 40, Sn 30, Ti 10.  
 The support for this foil cannot be removed without destroying the foil itself.

|                 |                     |                            |                  |               |             |  |
|-----------------|---------------------|----------------------------|------------------|---------------|-------------|--|
| <b>PD000190</b> | Thickness . . . . . | <b>0.001mm</b>             | Purity . . . . . | <b>99.75%</b> |             |  |
|                 | Support . . . . .   | <b>Permanent Polyester</b> |                  |               |             |  |
|                 | <b>Sizes LT</b>     |                            | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                            |                  |               |             |  |
|                 | 963-679-779         | <b>Size</b>                | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 314-016-274         | 25 x 25 mm                 | GBP 293.00       | GBP 387.00    | GBP 579.00  |  |
|                 |                     | 50 x 50 mm                 | GBP 504.00       | GBP 685.00    |             |  |

Typical Analysis : Ag 25, Al 40, Au 200, Bi 150, Ca 100, Cr 150, Cu 400, Fe 100, Mg 15, Mn 25, Ni 200, Pb 400, Pt 300, Rh 40, Si 40, Sn 30, Ti 10.  
 The support for this foil cannot be removed without destroying the foil itself.

|                 |                     |                 |                  |               |             |  |
|-----------------|---------------------|-----------------|------------------|---------------|-------------|--|
| <b>PD000201</b> | Thickness . . . . . | <b>0.0015mm</b> | Purity . . . . . | <b>99.95%</b> |             |  |
|                 | <b>Sizes LT</b>     |                 | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                 |                  |               |             |  |
|                 | 777-175-268         | <b>Size</b>     | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 |                     | 25 x 25 mm      | GBP 346.00       | GBP 442.00    | GBP 635.00  |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                     |                |                  |               |             |  |
|-----------------|---------------------|----------------|------------------|---------------|-------------|--|
| <b>PD000202</b> | Thickness . . . . . | <b>0.002mm</b> | Purity . . . . . | <b>99.95%</b> |             |  |
|                 | <b>Sizes LT</b>     |                | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                |                  |               |             |  |
|                 | 164-025-866         | <b>Size</b>    | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 013-137-617         | 25 x 25 mm     | GBP 341.00       | GBP 434.00    | GBP 620.00  |  |
|                 |                     | 50 x 50 mm     | GBP 562.00       | GBP 747.00    |             |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                     |                 |                  |               |             |  |
|-----------------|---------------------|-----------------|------------------|---------------|-------------|--|
| <b>PD000206</b> | Thickness . . . . . | <b>0.0025mm</b> | Purity . . . . . | <b>99.95%</b> |             |  |
|                 | <b>Sizes LT</b>     |                 | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                 |                  |               |             |  |
|                 | 902-034-757         | <b>Size</b>     | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 810-493-947         | 25 x 25 mm      | GBP 316.00       | GBP 399.00    | GBP 565.00  |  |
|                 |                     | 50 x 50 mm      | GBP 513.00       | GBP 678.00    |             |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                     |                |                  |               |             |  |
|-----------------|---------------------|----------------|------------------|---------------|-------------|--|
| <b>PD000203</b> | Thickness . . . . . | <b>0.003mm</b> | Purity . . . . . | <b>99.95%</b> |             |  |
|                 | <b>Sizes LT</b>     |                | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                |                  |               |             |  |
|                 | 813-923-511         | <b>Size</b>    | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 706-298-808         | 25 x 25 mm     | GBP 335.00       | GBP 426.00    | GBP 608.00  |  |
|                 |                     | 50 x 50 mm     | GBP 551.00       | GBP 731.00    |             |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                     |                |                  |               |             |  |
|-----------------|---------------------|----------------|------------------|---------------|-------------|--|
| <b>PD000204</b> | Thickness . . . . . | <b>0.004mm</b> | Purity . . . . . | <b>99.95%</b> |             |  |
|                 | <b>NLT Sizes</b>    |                | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                |                  |               |             |  |
|                 | 732-437-174         | <b>Size</b>    | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 960-401-116         | 25 x 25 mm     | GBP 322.00       | GBP 413.00    | GBP 595.00  |  |
|                 | 515-994-254         | 50 x 50 mm     | GBP 538.00       | GBP 718.00    |             |  |
|                 |                     | 100 x 100 mm   | GBP 1114.00      |               |             |  |

|  |                 |             |                 |             |             |  |
|--|-----------------|-------------|-----------------|-------------|-------------|--|
|  | <b>Sizes LT</b> |             | <b>Quantity</b> |             |             |  |
|  | <b>Web Code</b> |             |                 |             |             |  |
|  | 818-394-476     | <b>Size</b> | <b>1pc</b>      | <b>2pcs</b> | <b>5pcs</b> |  |
|  |                 | 25 x 25 mm  | GBP 451.00      | GBP 578.00  | GBP 833.00  |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                     |                |                  |               |             |  |
|-----------------|---------------------|----------------|------------------|---------------|-------------|--|
| <b>PD000205</b> | Thickness . . . . . | <b>0.005mm</b> | Purity . . . . . | <b>99.95%</b> |             |  |
|                 | <b>Sizes LT</b>     |                | <b>Quantity</b>  |               |             |  |
|                 | <b>Web Code</b>     |                |                  |               |             |  |
|                 | 237-340-657         | <b>Size</b>    | <b>1pc</b>       | <b>2pcs</b>   | <b>5pcs</b> |  |
|                 | 748-968-570         | 25 x 25 mm     | GBP 307.00       | GBP 391.00    | GBP 560.00  |  |
|                 | 627-598-411         | 50 x 50 mm     | GBP 506.00       | GBP 674.00    |             |  |
|                 |                     | 100 x 100 mm   | GBP 952.00       |               |             |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

Metal – Palladium

**Palladium**

**Pd**



**Foil**

**PD000200**

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

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

**NLT Sizes**

**Web Code**

575-288-162  
 716-746-126  
 520-791-716

| Size         | Quantity   |            |            |
|--------------|------------|------------|------------|
|              | 1pc        | 2pcs       | 5pcs       |
| 25 x 25 mm   | GBP 270.00 | GBP 339.00 | GBP 478.00 |
| 50 x 50 mm   | GBP 433.00 | GBP 570.00 |            |
| 100 x 100 mm | GBP 760.00 |            |            |

**Sizes LT**

**Web Code**

857-524-458

| Size       | Quantity   |            |            |
|------------|------------|------------|------------|
|            | 1pc        | 2pcs       | 5pcs       |
| 25 x 25 mm | GBP 337.00 | GBP 424.00 | GBP 597.00 |

**Discs**

**Web Code**

250-287-603  
 285-952-787  
 744-096-555  
 012-068-525  
 508-563-520

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 296.00 | GBP 356.00 | GBP 484.00 |
| 6 mm     | GBP 346.00 | GBP 426.00 | GBP 595.00 |
| 8 mm     | GBP 396.00 | GBP 497.00 | GBP 707.00 |
| 10 mm    | GBP 446.00 | GBP 567.00 | GBP 820.00 |
| 15 mm    | GBP 570.00 | GBP 743.00 |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000240**

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

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

**Sizes LT**

**Web Code**

583-317-749  
 994-833-519  
 101-064-573

| Size         | Quantity   |            |            |
|--------------|------------|------------|------------|
|              | 1pc        | 2pcs       | 5pcs       |
| 25 x 25 mm   | GBP 169.00 | GBP 209.00 | GBP 298.00 |
| 50 x 50 mm   | GBP 249.00 | GBP 324.00 | GBP 483.00 |
| 100 x 100 mm | GBP 411.00 | GBP 681.00 |            |

**Discs**

**Web Code**

985-445-273  
 180-657-850  
 582-230-225  
 778-782-546  
 347-814-182  
 476-770-128

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 257.00 | GBP 322.00 | GBP 496.00 |
| 6 mm     | GBP 282.00 | GBP 357.00 | GBP 553.00 |
| 8 mm     | GBP 307.00 | GBP 393.00 | GBP 610.00 |
| 10 mm    | GBP 332.00 | GBP 428.00 | GBP 668.00 |
| 15 mm    | GBP 393.00 | GBP 516.00 |            |
| 25 mm    | GBP 518.00 |            |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000241**

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

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

**Sizes LT**

**Web Code**

661-665-772

| Size         | Quantity    |
|--------------|-------------|
|              | 1pc         |
| 150 x 150 mm | GBP 1068.00 |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000250**

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

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

**Sizes LT**

**Web Code**

731-434-916  
 593-436-888  
 430-811-745

| Size         | Quantity   |            |
|--------------|------------|------------|
|              | 1pc        | 2pcs       |
| 25 x 25 mm   | GBP 200.00 | GBP 252.00 |
| 50 x 50 mm   | GBP 317.00 | GBP 417.00 |
| 100 x 100 mm | GBP 624.00 |            |

**Discs**

**Web Code**

715-712-702  
 464-087-548  
 010-943-744  
 367-971-147  
 996-392-205

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 256.00 | GBP 308.00 | GBP 433.00 |
| 6 mm     | GBP 292.00 | GBP 358.00 | GBP 513.00 |
| 8 mm     | GBP 327.00 | GBP 409.00 | GBP 594.00 |
| 10 mm    | GBP 363.00 | GBP 460.00 | GBP 676.00 |
| 15 mm    | GBP 452.00 | GBP 586.00 |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000251**

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

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

**Sizes LT**

**Web Code**

387-714-448

| Size         | Quantity    |
|--------------|-------------|
|              | 1pc         |
| 150 x 150 mm | GBP 1245.00 |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**Metal – Palladium**

**Palladium**

**Pd**



**Foil**

**PD000255**

Thickness ..... **0.02mm**  
 Temper ..... **As rolled**

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

**Sizes LT**

**Web Code**  
 808-387-045  
 212-224-475  
 776-184-148

| Size         | Quantity   |            |            |            |
|--------------|------------|------------|------------|------------|
|              | 1pc        | 2pcs       | 5pcs       | 10pcs      |
| 25 x 25 mm   | GBP 211.00 | GBP 273.00 | GBP 389.00 | GBP 532.00 |
| 50 x 50 mm   | GBP 322.00 | GBP 430.00 | GBP 642.00 |            |
| 100 x 100 mm | GBP 543.00 | GBP 918.00 |            |            |

**Discs**

**Web Code**  
 322-716-566  
 339-569-497  
 446-176-196  
 772-014-781  
 501-845-580  
 730-692-291

| Diameter | Quantity   |            |             |
|----------|------------|------------|-------------|
|          | 10 discs   | 20 discs   | 50 discs    |
| 4 mm     | GBP 330.00 | GBP 456.00 | GBP 806.00  |
| 6 mm     | GBP 364.00 | GBP 505.00 | GBP 883.00  |
| 8 mm     | GBP 398.00 | GBP 554.00 | GBP 962.00  |
| 10 mm    | GBP 433.00 | GBP 603.00 | GBP 1042.00 |
| 15 mm    | GBP 518.00 | GBP 723.00 |             |
| 25 mm    | GBP 689.00 |            |             |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000256**

Thickness ..... **0.02mm**  
 Temper ..... **As rolled**

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

**Sizes LT**

**Web Code**  
 755-164-971

| Size         | Quantity    |
|--------------|-------------|
|              | 1pc         |
| 150 x 150 mm | GBP 1137.00 |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000260**

Thickness ..... **0.025mm**  
 Temper ..... **As rolled**

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

**NLT Sizes**

**Web Code**  
 882-128-982  
 374-895-401

| Size         | Quantity   |            |            |       |
|--------------|------------|------------|------------|-------|
|              | 1pc        | 2pcs       | 5pcs       | 10pcs |
| 50 x 50 mm   | GBP 197.00 | GBP 254.00 | GBP 409.00 |       |
| 100 x 100 mm | GBP 328.00 | GBP 591.00 |            |       |

**Sizes LT**

**Web Code**  
 037-818-636  
 806-580-857  
 904-278-664

| Size         | Quantity   |            |            |            |
|--------------|------------|------------|------------|------------|
|              | 1pc        | 2pcs       | 5pcs       | 10pcs      |
| 25 x 25 mm   | GBP 133.00 | GBP 164.00 | GBP 229.00 | GBP 309.00 |
| 50 x 50 mm   | GBP 217.00 | GBP 280.00 | GBP 450.00 |            |
| 100 x 100 mm | GBP 409.00 | GBP 738.00 |            |            |

**Discs**

**Web Code**  
 387-204-710  
 400-590-081  
 073-751-705  
 218-974-895  
 371-850-371  
 481-290-825

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 211.00 | GBP 253.00 | GBP 362.00 |
| 6 mm     | GBP 231.00 | GBP 281.00 | GBP 407.00 |
| 8 mm     | GBP 251.00 | GBP 310.00 | GBP 452.00 |
| 10 mm    | GBP 271.00 | GBP 338.00 | GBP 498.00 |
| 15 mm    | GBP 320.00 | GBP 408.00 |            |
| 25 mm    | GBP 419.00 |            |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000270**

Thickness ..... **0.025mm**  
 Temper ..... **As rolled**

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

**NLT Sizes**

**Web Code**  
 559-242-411  
 482-301-979  
 552-458-217

| Size         | Quantity    |            |            |
|--------------|-------------|------------|------------|
|              | 1pc         | 2pcs       | 5pcs       |
| 25 x 25 mm   | GBP 262.00  | GBP 340.00 | GBP 497.00 |
| 50 x 50 mm   | GBP 440.00  | GBP 664.00 |            |
| 100 x 100 mm | GBP 1237.00 |            |            |

**Sizes LT**

**Web Code**  
 509-883-582  
 421-540-510  
 600-844-245

| Size         | Quantity    |            |            |
|--------------|-------------|------------|------------|
|              | 1pc         | 2pcs       | 5pcs       |
| 25 x 25 mm   | GBP 302.00  | GBP 391.00 | GBP 572.00 |
| 50 x 50 mm   | GBP 551.00  | GBP 831.00 |            |
| 100 x 100 mm | GBP 1856.00 |            |            |

**Discs**

**Web Code**  
 971-725-568  
 465-698-312  
 212-288-254  
 536-029-387  
 003-674-229  
 459-283-566

| Diameter | Quantity    |            |            |
|----------|-------------|------------|------------|
|          | 10 discs    | 20 discs   | 50 discs   |
| 4 mm     | GBP 294.00  | GBP 361.00 | GBP 517.00 |
| 6 mm     | GBP 348.00  | GBP 438.00 | GBP 639.00 |
| 8 mm     | GBP 402.00  | GBP 515.00 | GBP 762.00 |
| 10 mm    | GBP 457.00  | GBP 593.00 | GBP 973.00 |
| 15 mm    | GBP 593.00  | GBP 834.00 |            |
| 25 mm    | GBP 1054.00 |            |            |

Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.

**PD000263**

Thickness ..... **0.025mm**  
 Temper ..... **As rolled**

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

**Sizes LT**

**Web Code**  
 470-814-373

| Size         | Quantity   |
|--------------|------------|
|              | 1pc        |
| 150 x 150 mm | GBP 841.00 |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**Palladium**

**Pd**



**Foil**

**PD000261**

Thickness ..... **0.03mm**  
 Temper ..... **As rolled**

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

**NLT Sizes**

**Web Code**

389-671-930  
 034-990-167  
 359-168-684

| Size         | Quantity   |            |            |            |
|--------------|------------|------------|------------|------------|
|              | 1pc        | 2pcs       | 5pcs       | 10pcs      |
| 25 x 25 mm   | GBP 172.00 | GBP 205.00 | GBP 272.00 | GBP 350.00 |
| 50 x 50 mm   | GBP 248.00 | GBP 312.00 | GBP 466.00 |            |
| 100 x 100 mm | GBP 399.00 | GBP 680.00 |            |            |

**Sizes LT**

**Web Code**  
 775-613-439  
 369-363-991

| Size       | Quantity   |            |            |            |
|------------|------------|------------|------------|------------|
|            | 1pc        | 2pcs       | 5pcs       | 10pcs      |
| 25 x 25 mm | GBP 189.00 | GBP 225.00 | GBP 299.00 | GBP 384.00 |
| 50 x 50 mm | GBP 310.00 | GBP 390.00 | GBP 582.00 |            |

**Discs**

**Web Code**  
 652-587-033  
 573-387-144  
 673-399-637  
 174-950-840  
 868-852-186  
 606-519-292

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 222.00 | GBP 260.00 | GBP 344.00 |
| 6 mm     | GBP 245.00 | GBP 293.00 | GBP 396.00 |
| 8 mm     | GBP 269.00 | GBP 326.00 | GBP 449.00 |
| 10 mm    | GBP 292.00 | GBP 359.00 | GBP 503.00 |
| 15 mm    | GBP 350.00 | GBP 441.00 | GBP 640.00 |
| 25 mm    | GBP 466.00 |            |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000264**

Thickness ..... **0.03mm**  
 Temper ..... **As rolled**

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

**Sizes LT**

**Web Code**  
 950-766-257

| Size         | Quantity   |             |
|--------------|------------|-------------|
|              | 1pc        | 2pcs        |
| 150 x 150 mm | GBP 751.00 | GBP 1407.00 |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000262**

Thickness ..... **0.047mm**  
 Temper ..... **As rolled**

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

**Size**

**Web Code**  
 863-580-774  
 947-589-916  
 448-749-957

| Size         | Quantity   |            |            |
|--------------|------------|------------|------------|
|              | 1pc        | 2pcs       | 5pcs       |
| 25 x 25 mm   | GBP 183.00 | GBP 220.00 | GBP 296.00 |
| 50 x 50 mm   | GBP 269.00 | GBP 342.00 |            |
| 100 x 100 mm | GBP 442.00 |            |            |

**Discs**

**Web Code**  
 718-212-121  
 776-520-183  
 065-019-903  
 127-494-638  
 936-834-709

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 229.00 | GBP 269.00 | GBP 358.00 |
| 6 mm     | GBP 255.00 | GBP 306.00 | GBP 418.00 |
| 8 mm     | GBP 282.00 | GBP 344.00 | GBP 478.00 |
| 10 mm    | GBP 308.00 | GBP 382.00 | GBP 538.00 |
| 15 mm    | GBP 374.00 | GBP 475.00 |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000272**

Thickness ..... **0.075mm**  
 Temper ..... **As rolled**

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

**Size**

**Web Code**  
 621-604-093  
 898-382-203  
 946-325-769

| Size         | Quantity   |            |            |
|--------------|------------|------------|------------|
|              | 1pc        | 2pcs       | 5pcs       |
| 25 x 25 mm   | GBP 133.00 | GBP 162.00 | GBP 271.00 |
| 50 x 50 mm   | GBP 223.00 | GBP 374.00 |            |
| 100 x 100 mm | GBP 654.00 |            |            |

**Discs**

**Web Code**  
 389-188-297  
 250-184-228  
 791-370-072  
 909-210-234  
 540-308-881

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 195.00 | GBP 226.00 | GBP 307.00 |
| 6 mm     | GBP 212.00 | GBP 251.00 | GBP 361.00 |
| 8 mm     | GBP 229.00 | GBP 275.00 | GBP 462.00 |
| 10 mm    | GBP 246.00 | GBP 323.00 | GBP 591.00 |
| 15 mm    | GBP 321.00 | GBP 498.00 |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000276**

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

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

**Coil**

**Web Code**  
 620-677-206  
 066-128-476  
 431-482-803  
 402-845-030  
 356-159-217

| Length | Quantity   |
|--------|------------|
|        | 1 Reel     |
| 0.05 m | GBP 115.00 |
| 0.1 m  | GBP 127.00 |
| 0.2 m  | GBP 144.00 |
| 0.5 m  | GBP 189.00 |
| 1 m    | GBP 293.00 |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**Metal – Palladium**



## Palladium

Pd



### Foil

|                 |                              |  |
|-----------------|------------------------------|--|
| <b>PD000275</b> | Thickness ..... <b>0.1mm</b> | Purity..... <b>99.95%</b>              |
|                 | Temper..... <b>As rolled</b> |  |
| <b>Size</b>     | <b>Quantity</b>              |  |
| <b>Web Code</b> | <b>Size</b>                  | <b>1pc</b> <b>2pcs</b> <b>5pcs</b>     |
| 671-051-111     | 25 x 25 mm                   | GBP 134.00    GBP 162.00    GBP 238.00 |
| 958-638-216     | 50 x 50 mm                   | GBP 197.00    GBP 318.00               |
| 515-484-184     | 100 x 100 mm                 | GBP 535.00                             |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                              |                                  |
|-----------------|------------------------------|----------------------------------|
| <b>PD000278</b> | Thickness ..... <b>0.1mm</b> | High Purity ..... <b>99.99+%</b> |
|                 | Temper..... <b>As rolled</b> |                                  |
| <b>Size</b>     | <b>Quantity</b>              |                                  |
| <b>Web Code</b> | <b>Size</b>                  | <b>1pc</b> <b>2pcs</b>           |
| 487-983-761     | 25 x 25 mm                   | GBP 383.00    GBP 539.00         |
| 625-712-364     | 50 x 50 mm                   | GBP 641.00                       |

Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.

|                 |                                |                            |
|-----------------|--------------------------------|----------------------------|
| <b>PD000280</b> | Thickness ..... <b>0.125mm</b> | Purity..... <b>99.99+%</b> |
|                 | Temper..... <b>As rolled</b>   |                            |
| <b>Size</b>     | <b>Quantity</b>                |                            |
| <b>Web Code</b> | <b>Size</b>                    | <b>1pc</b> <b>2pcs</b>     |
| 425-270-664     | 25 x 25 mm                     | GBP 414.00    GBP 582.00   |
| 158-828-244     | 50 x 50 mm                     | GBP 702.00                 |

Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.

|                 |                                |  |  |
|-----------------|--------------------------------|--|--|
| <b>PD000290</b> | Thickness ..... <b>0.125mm</b> | Purity..... <b>99.95%</b>              |  |
|                 | Temper..... <b>As rolled</b>   |  |  |
| <b>Size</b>     | <b>Quantity</b>                |  |  |
| <b>Web Code</b> | <b>Size</b>                    | <b>1pc</b> <b>2pcs</b> <b>5pcs</b>     |  |
| 687-590-619     | 25 x 25 mm                     | GBP 241.00    GBP 314.00    GBP 446.00 |  |
| 948-829-550     | 50 x 50 mm                     | GBP 398.00    GBP 599.00               |  |
| 603-692-289     | 100 x 100 mm                   | GBP 1098.00                            |  |

|                 |                 |                 |                                 |
|-----------------|-----------------|-----------------|---------------------------------|
| <b>Discs</b>    | <b>Quantity</b> |                 |                                 |
| <b>Web Code</b> | <b>Diameter</b> | <b>10 discs</b> | <b>20 discs</b> <b>50 discs</b> |
| 690-956-274     | 4 mm            | GBP 260.00      | GBP 310.00    GBP 422.00        |
| 369-533-980     | 6 mm            | GBP 309.00      | GBP 381.00    GBP 538.00        |
| 191-746-428     | 8 mm            | GBP 359.00      | GBP 454.00    GBP 658.00        |
| 968-306-350     | 10 mm           | GBP 410.00      | GBP 528.00    GBP 856.00        |
| 038-288-321     | 15 mm           | GBP 533.00      | GBP 745.00                      |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                               |                           |
|-----------------|-------------------------------|---------------------------|
| <b>PD000300</b> | Thickness ..... <b>0.25mm</b> | Purity..... <b>99.95%</b> |
|                 | Temper..... <b>As rolled</b>  |                           |
| <b>Size</b>     | <b>Quantity</b>               |                           |
| <b>Web Code</b> | <b>Size</b>                   | <b>1pc</b> <b>2pcs</b>    |
| 255-473-514     | 25 x 25 mm                    | GBP 253.00    GBP 328.00  |
| 934-197-928     | 50 x 50 mm                    | GBP 488.00                |

|                 |                 |                 |                                 |
|-----------------|-----------------|-----------------|---------------------------------|
| <b>Discs</b>    | <b>Quantity</b> |                 |                                 |
| <b>Web Code</b> | <b>Diameter</b> | <b>10 discs</b> | <b>20 discs</b> <b>50 discs</b> |
| 842-351-926     | 4 mm            | GBP 342.00      | GBP 482.00    GBP 614.00        |
| 293-991-580     | 6 mm            | GBP 394.00      | GBP 556.00                      |
| 748-941-364     | 8 mm            | GBP 446.00      | GBP 632.00                      |
| 617-666-571     | 10 mm           | GBP 499.00      |                                 |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                               |                                  |
|-----------------|-------------------------------|----------------------------------|
| <b>PD000310</b> | Thickness ..... <b>0.25mm</b> | High Purity ..... <b>99.99+%</b> |
|                 | Temper..... <b>As rolled</b>  |                                  |
| <b>Size</b>     | <b>Quantity</b>               |                                  |
| <b>Web Code</b> | <b>Size</b>                   | <b>1pc</b> <b>2pcs</b>           |
| 938-482-605     | 25 x 25 mm                    | GBP 454.00    GBP 615.00         |
| 310-331-124     | 50 x 50 mm                    | GBP 1018.00                      |

|                 |                 |                 |                                 |
|-----------------|-----------------|-----------------|---------------------------------|
| <b>Discs</b>    | <b>Quantity</b> |                 |                                 |
| <b>Web Code</b> | <b>Diameter</b> | <b>10 discs</b> | <b>20 discs</b> <b>50 discs</b> |
| 791-398-523     | 4 mm            | GBP 426.00      | GBP 599.00    GBP 906.00        |
| 924-818-790     | 6 mm            | GBP 534.00      | GBP 756.00                      |
| 602-345-331     | 8 mm            | GBP 646.00      | GBP 918.00                      |
| 293-174-394     | 10 mm           | GBP 759.00      |                                 |

Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.

Metal – Palladium

## Palladium

Pd



### Foil

**PD000350**

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

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

**Size**

**Web Code**  
 876-038-913  
 849-235-561  
 154-444-021

| Size       | Quantity   |            |            |
|------------|------------|------------|------------|
|            | 1pc        | 2pcs       | 5pcs       |
| 10 x 10 mm | GBP 183.00 | GBP 229.00 | GBP 328.00 |
| 25 x 25 mm | GBP 319.00 | GBP 472.00 |            |
| 50 x 50 mm | POA        |            |            |

**Discs**

**Web Code**  
 188-750-982  
 593-869-998  
 233-746-612  
 218-327-474

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 385.00 | GBP 543.00 | GBP 715.00 |
| 6 mm     | GBP 459.00 | GBP 651.00 |            |
| 8 mm     | GBP 534.00 | GBP 829.00 |            |
| 10 mm    | GBP 624.00 |            |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000351**

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

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

**Size**

**Web Code**  
 353-735-516  
 174-784-459

| Size       | Quantity   |            |
|------------|------------|------------|
|            | 1pc        | 2pcs       |
| 10 x 10 mm | GBP 232.00 | GBP 298.00 |
| 25 x 25 mm | GBP 531.00 |            |

Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.

**PD000360**

Thickness ..... **0.60mm**  
 Temper ..... **As rolled**

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

**Size**

**Web Code**  
 884-188-854  
 805-164-040  
 010-350-329

| Size       | Quantity   |            |            |
|------------|------------|------------|------------|
|            | 1pc        | 2pcs       | 5pcs       |
| 10 x 10 mm | GBP 192.00 | GBP 241.00 | GBP 347.00 |
| 25 x 25 mm | GBP 341.00 | GBP 547.00 |            |
| 50 x 50 mm | POA        |            |            |

**Discs**

**Web Code**  
 063-657-417  
 720-463-020  
 093-507-829  
 341-859-337

| Diameter | Quantity   |            |            |
|----------|------------|------------|------------|
|          | 10 discs   | 20 discs   | 50 discs   |
| 4 mm     | GBP 399.00 | GBP 564.00 | GBP 753.00 |
| 6 mm     | GBP 480.00 | GBP 682.00 |            |
| 8 mm     | GBP 564.00 | GBP 927.00 |            |
| 10 mm    | GBP 701.00 |            |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000375**

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

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

**Size**

**Web Code**  
 933-030-083  
 190-955-984

| Size       | Quantity |
|------------|----------|
|            | 1pc      |
| 25 x 25 mm | POA      |
| 50 x 50 mm | POA      |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

**PD000376**

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

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

**Size**

**Web Code**  
 496-268-833  
 605-971-200

| Size       | Quantity |
|------------|----------|
|            | 1pc      |
| 25 x 25 mm | POA      |
| 50 x 50 mm | POA      |

Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.

**PD000500**

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

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

**Size**

**Web Code**  
 891-115-500  
 389-444-916

| Size       | Quantity |
|------------|----------|
|            | 1pc      |
| 25 x 25 mm | POA      |
| 50 x 50 mm | POA      |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

Metal – Palladium

**Palladium**

**Pd**



**Sputtering Target**

|                 |                                   |                                |
|-----------------|-----------------------------------|--------------------------------|
| <b>PD009202</b> | Thickness . . . . . <b>0.25mm</b> | Purity . . . . . <b>99.95%</b> |
| <b>Size</b>     | <b>Quantity</b>                   |                                |
| <b>Web Code</b> | <b>Disc diam.</b>                 | <b>1disc</b>                   |
| 774-869-238     | 50 mm                             | POA                            |
| 080-660-226     | 54 mm                             | POA                            |
| 480-026-005     | 57 mm                             | POA                            |
| 264-199-905     | 60 mm                             | POA                            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

|                 |                                  |                                |
|-----------------|----------------------------------|--------------------------------|
| <b>PD009205</b> | Thickness . . . . . <b>0.5mm</b> | Purity . . . . . <b>99.95%</b> |
| <b>Size</b>     | <b>Quantity</b>                  |                                |
| <b>Web Code</b> | <b>Disc diam.</b>                | <b>1disc</b>                   |
| 122-219-748     | 25 mm                            | POA                            |
| 997-568-487     | 50 mm                            | POA                            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

|                 |                                  |                                |
|-----------------|----------------------------------|--------------------------------|
| <b>PD009206</b> | Thickness . . . . . <b>1.0mm</b> | Purity . . . . . <b>99.95%</b> |
| <b>Size</b>     | <b>Quantity</b>                  |                                |
| <b>Web Code</b> | <b>Disc diam.</b>                | <b>1disc</b>                   |
| 999-409-118     | 25 mm                            | POA                            |
| 636-354-074     | 50 mm                            | POA                            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.

|                 |                                |                                |
|-----------------|--------------------------------|--------------------------------|
| <b>PD009300</b> | Thickness . . . . . <b>3mm</b> | Purity . . . . . <b>99.95%</b> |
| <b>Size</b>     | <b>Quantity</b>                |                                |
| <b>Web Code</b> | <b>Disc diam.</b>              | <b>1disc</b>                   |
| 570-186-071     | 10 mm                          | POA                            |
| 786-146-796     | 25 mm                          | POA                            |
| 324-785-761     | 50 mm                          | POA                            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.  
 These targets are normally available for immediate shipment from stock. Other sizes are available to special order.



**Wire**

|                 |                                  |                                |
|-----------------|----------------------------------|--------------------------------|
| <b>PD005110</b> | Diameter . . . . . <b>0.02mm</b> | Purity . . . . . <b>99.95%</b> |
|                 | Temper . . . . . <b>As drawn</b> |                                |
| <b>Length</b>   | <b>Quantity</b>                  |                                |
| <b>Web Code</b> | <b>Length</b>                    | <b>1 Reel</b>                  |
| 063-232-954     | 0.5 m                            | GBP 194.00                     |
| 887-448-430     | 1 m                              | GBP 235.00                     |
| 931-055-471     | 2 m                              | GBP 293.00                     |
| 381-929-350     | 5 m                              | GBP 427.00                     |

Typical Analysis : Ag 5, Ca 30, Cu 10, Fe 30, Mg 30.

|                 |                                   |                               |
|-----------------|-----------------------------------|-------------------------------|
| <b>PD005113</b> | Diameter . . . . . <b>0.025mm</b> | Purity . . . . . <b>99.9%</b> |
|                 | Temper . . . . . <b>As drawn</b>  |                               |
| <b>Length</b>   | <b>Quantity</b>                   |                               |
| <b>Web Code</b> | <b>Length</b>                     | <b>1 Reel</b>                 |
| 765-729-400     | 1 m                               | GBP 145.00                    |
| 021-787-611     | 2 m                               | GBP 174.00                    |
| 716-181-934     | 5 m                               | GBP 230.00                    |
| 522-738-520     | 10 m                              | GBP 293.00                    |
| 375-972-363     | 20 m                              | GBP 383.00                    |

Typical Analysis : Ag <10, Au <20, B <50, Cu <10, Fe <50, Mg <10, Pb <10, Pt <100.

|                 |                                  |                                |
|-----------------|----------------------------------|--------------------------------|
| <b>PD005114</b> | Diameter . . . . . <b>0.04mm</b> | Purity . . . . . <b>99.95%</b> |
|                 | Temper . . . . . <b>As drawn</b> |                                |
| <b>Length</b>   | <b>Quantity</b>                  |                                |
| <b>Web Code</b> | <b>Length</b>                    | <b>1 Reel</b>                  |
| 659-414-215     | 1 m                              | GBP 132.00                     |

Typical Analysis : Ag 5, Ca 30, Cu 10, Fe 30, Mg 30.

**Metal – Palladium**

## Palladium

### Pd



## Wire

|   |  |                                  |
|---|--|----------------------------------|
| <b>PD005116</b>   | Diameter ..... <b>0.05mm</b><br>Temper ..... <b>As drawn</b> | Purity ..... <b>99.9%</b>        |
| <b>Length</b>   | <b>Quantity</b>  |                                  |
| <b>Web Code</b>   | <b>Length</b> <b>1 Reel</b>                                  |                                  |
| 384-323-360   | 0.5 m GBP 84.50  |                                  |
| 040-414-039   | 1 m GBP 99.50  |                                  |
| 051-761-222   | 5 m GBP 170.00   |                                  |
| 470-157-937   | 10 m GBP 230.00  |                                  |
| 899-443-307   | 20 m GBP 348.00  |                                  |
| Typical Analysis : Ag <10, Au <20, B <50, Cu <10, Fe <50, Mg <10, Pb <10, Pt <100.          |  |                                  |
| <b>PD005120</b>   | Diameter ..... <b>0.125mm</b><br>Temper ..... <b>Hard</b>    | Purity ..... <b>99.95%</b>       |
| <b>Length</b>   | <b>Quantity</b>  |                                  |
| <b>Web Code</b>   | <b>Length</b> <b>1 Reel</b>                                  |                                  |
| 217-576-190   | 0.1 m GBP 82.50  |                                  |
| 197-015-035   | 0.5 m GBP 112.00   |                                  |
| 626-877-956   | 1 m GBP 134.00   |                                  |
| 359-743-561   | 5 m GBP 229.00   |                                  |
| 967-944-098   | 25 m GBP 466.00  |                                  |
| 993-003-711   | 50 m GBP 874.00  |                                  |
| Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20. |  |                                  |
| <b>PD005140</b>   | Diameter ..... <b>0.25mm</b><br>Temper ..... <b>As drawn</b> | High Purity ..... <b>99.99+%</b> |
| <b>Length</b>   | <b>Quantity</b>  |                                  |
| <b>Web Code</b>   | <b>Length</b> <b>1 Reel</b>                                  |                                  |
| 517-247-845   | 0.1 m GBP 114.00   |                                  |
| 655-981-712   | 0.2 m GBP 140.00   |                                  |
| 997-712-613   | 0.5 m GBP 191.00   |                                  |
| 714-076-507   | 1 m GBP 250.00   |                                  |
| 259-569-175   | 2 m GBP 350.00   |                                  |
| Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.                              |  |                                  |
| <b>PD005130</b>   | Diameter ..... <b>0.25mm</b><br>Temper ..... <b>Hard</b>     | Purity ..... <b>99.95%</b>       |
| <b>Length</b>   | <b>Quantity</b>  |                                  |
| <b>Web Code</b>   | <b>Length</b> <b>1 Reel</b>                                  |                                  |
| 125-465-812   | 0.1 m GBP 94.00  |                                  |
| 683-231-812   | 0.5 m GBP 138.00   |                                  |
| 403-983-523   | 1 m GBP 171.00   |                                  |
| 497-943-171   | 2 m GBP 218.00   |                                  |
| 242-887-908   | 5 m GBP 311.00   |                                  |
| 360-993-113   | 10 m GBP 417.00  |                                  |
| Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20. |  |                                  |
| <b>PD005146</b>   | Diameter ..... <b>0.5mm</b><br>Temper ..... <b>As drawn</b>  | Purity ..... <b>99.95%</b>       |
| <b>Length</b>   | <b>Quantity</b>  |                                  |
| <b>Web Code</b>   | <b>Length</b> <b>1 Reel</b>                                  |                                  |
| 226-602-649   | 0.1 m GBP 122.00   |                                  |
| 021-763-323   | 0.2 m GBP 145.00   |                                  |
| 070-757-735   | 0.5 m GBP 191.00   |                                  |
| 844-717-231   | 1 m GBP 308.00   |                                  |
| 589-660-379   | 2 m GBP 541.00   |                                  |
| Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20. |  |                                  |
| <b>PD005150</b>   | Diameter ..... <b>1.0mm</b><br>Temper ..... <b>Hard</b>      | Purity ..... <b>99.95%</b>       |
| <b>Length</b>   | <b>Quantity</b>  |                                  |
| <b>Web Code</b>   | <b>Length</b> <b>1 Reel</b>                                  |                                  |
| 613-981-973   | 0.05 m GBP 129.00  |                                  |
| 343-397-870   | 0.1 m GBP 163.00   |                                  |
| 924-726-883   | 0.2 m GBP 252.00   |                                  |
| 857-075-132   | 0.5 m GBP 490.00   |                                  |
| Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20. |  |                                  |
| <b>PD005155</b>   | Diameter ..... <b>1.0mm</b><br>Temper ..... <b>As drawn</b>  | High Purity ..... <b>99.99+%</b> |
| <b>Length</b>   | <b>Quantity</b>  |                                  |
| <b>Web Code</b>   | <b>Length</b> <b>1 Reel</b>                                  |                                  |
| 798-628-337   | 0.05 m GBP 161.00  |                                  |
| 828-544-237   | 0.1 m GBP 259.00   |                                  |
| 568-034-952   | 0.2 m GBP 459.00   |                                  |
| 004-367-337   | 0.5 m GBP 1009.00  |                                  |
| Typical Analysis : Ag 2, Ca <1, Cu 1, Fe 2, Mg <1, Pt 2, Si 2.                              |  |                                  |

## Palladium

### Pd



## Rod

|                 |                                 |                                |
|-----------------|---------------------------------|--------------------------------|
| <b>PD007920</b> | Diameter . . . . . <b>2.0mm</b> | Purity . . . . . <b>99.95%</b> |
| <b>Size</b>     | <b>Quantity</b>                 |                                |
| <b>Web Code</b> | <b>Length</b>                   | <b>1pc      2pcs</b>           |
| 948-838-228     | 25 mm                           | GBP 195.00    GBP 296.00       |
| 894-514-892     | 50 mm                           | GBP 277.00    GBP 474.00       |
| 814-351-465     | 100 mm                          | GBP 456.00                     |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                                 |                                |
|-----------------|---------------------------------|--------------------------------|
| <b>PD007940</b> | Diameter . . . . . <b>4.0mm</b> | Purity . . . . . <b>99.95%</b> |
| <b>Size</b>     | <b>Quantity</b>                 |                                |
| <b>Web Code</b> | <b>Length</b>                   | <b>1pc      2pcs</b>           |
| 340-728-157     | 25 mm                           | GBP 279.00    GBP 458.00       |
| 198-451-203     | 50 mm                           | GBP 441.00    GBP 782.00       |
| 806-407-169     | 100 mm                          | GBP 766.00                     |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                                 |  |  |
|-----------------|---------------------------------|--|--|
| <b>PD007950</b> | Diameter . . . . . <b>6.0mm</b> | Purity . . . . . <b>99.95%</b>         |  |
| <b>Size</b>     | <b>Quantity</b>                 |  |  |
| <b>Web Code</b> | <b>Length</b>                   | <b>1pc      2pcs      5pcs</b>         |  |
| 731-526-485     | 10 mm                           | GBP 263.00    GBP 426.00    GBP 889.00 |  |
| 682-725-887     | 25 mm                           | GBP 482.00    GBP 864.00               |  |
| 900-546-590     | 50 mm                           | GBP 848.00                             |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.



## Tube

|                 |   |                                       |
|-----------------|---|---------------------------------------|
| <b>PD007100</b> | Outside Diameter . . . . . <b>1.0mm</b> | Wall Thickness . . . . . <b>0.1mm</b> |
|                 | Inside Diameter . . . . . <b>0.8mm</b>  | Purity . . . . . <b>99.95%</b>        |
|                 | Temper . . . . . <b>As drawn</b>        |                                       |
| <b>Size</b>     | <b>Quantity</b>                         |                                       |
| <b>Web Code</b> | <b>Length</b>                           | <b>1pc</b>                            |
| 390-949-045     | 50 mm                                   | GBP 205.00                            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |  |  |
|-----------------|--|--|
| <b>PD007130</b> | Outside Diameter . . . . . <b>1.59mm</b> | Wall Thickness . . . . . <b>0.45mm</b> |
|                 | Inside Diameter . . . . . <b>0.69mm</b>  | Purity . . . . . <b>99.95%</b>         |
|                 | Temper . . . . . <b>As drawn</b>         |  |
| <b>Size</b>     | <b>Quantity</b>                          |  |
| <b>Web Code</b> | <b>Length</b>                            | <b>1pc      2pcs</b>                   |
| 577-597-997     | 50 mm                                    | GBP 233.00    GBP 305.00               |
| 219-832-502     | 100 mm                                   | GBP 299.00    GBP 398.00               |
| 104-851-213     | 200 mm                                   | GBP 391.00                             |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |   |                                       |
|-----------------|---|---------------------------------------|
| <b>PD007150</b> | Outside Diameter . . . . . <b>2.0mm</b> | Wall Thickness . . . . . <b>0.2mm</b> |
|                 | Inside Diameter . . . . . <b>1.6mm</b>  | Purity . . . . . <b>99.95%</b>        |
|                 | Temper . . . . . <b>As drawn</b>        |                                       |
| <b>Size</b>     | <b>Quantity</b>                         |                                       |
| <b>Web Code</b> | <b>Length</b>                           | <b>1pc      2pcs</b>                  |
| 506-836-310     | 50 mm                                   | GBP 236.00    GBP 308.00              |
| 351-963-303     | 100 mm                                  | GBP 301.00    GBP 400.00              |
| 995-419-856     | 200 mm                                  | GBP 394.00                            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |   |  |  |  |  |
|-----------------|---|--|--|--|--|
| <b>PD007250</b> | Outside Diameter . . . . . <b>5.0mm</b> | Wall Thickness . . . . . <b>0.3mm</b>                |  |  |  |
|                 | Inside Diameter . . . . . <b>4.4mm</b>  | Purity . . . . . <b>99.95%</b>                       |  |  |  |
|                 | Temper . . . . . <b>As drawn</b>        |  |  |  |  |
| <b>Size</b>     | <b>Quantity</b>                         |  |  |  |  |
| <b>Web Code</b> | <b>Length</b>                           | <b>1pc      2pcs      5pcs      10pcs      20pcs</b> |  |  |  |
| 752-919-367     | 25 mm                                   | GBP 271.00    GBP 401.00                             |  |  |  |
| 414-906-599     | 50 mm                                   | GBP 394.00    GBP 710.00                             |  |  |  |
| 863-321-472     | 100 mm                                  | GBP 703.00   |  |  |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

|                 |                                       |   |
|-----------------|---------------------------------------|---|
| <b>PD007260</b> | Outside Diameter . . . . . <b>6mm</b> | Wall Thickness . . . . . <b>0.5mm</b>                   |
|                 | Inside Diameter . . . . . <b>5mm</b>  | Purity . . . . . <b>99.95%</b>                          |
|                 | Temper . . . . . <b>As drawn</b>      | Condition . . . . . <b>Half-round closed at one end</b> |
| <b>Size</b>     | <b>Quantity</b>                       |   |
| <b>Web Code</b> | <b>Length</b>                         | <b>1pc</b>  |
| 064-243-989     | 120 mm                                | GBP 1206.00   |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

Metal – Palladium

## Palladium

Pd



### Tube

PD007265

Outside Diameter . . . . . **6.6mm**  
 Inside Diameter . . . . . **6.35mm**  
 Temper . . . . . **As drawn**

Wall Thickness . . . . . **0.125mm**  
 Purity . . . . . **99.95%**

**Size**

**Web Code**

887-380-269  
 856-631-092  
 019-498-896

| Length | Quantity   |            |
|--------|------------|------------|
|        | 1pc        | 2pcs       |
| 50 mm  | GBP 250.00 | GBP 421.00 |
| 100 mm | GBP 415.00 | GBP 751.00 |
| 200 mm | GBP 744.00 |            |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.



### Powder

PD006016

Max. Particle size . . . . . **3micron**

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



**Web Code**

617-922-293  
 923-815-754  
 326-994-924

| Weight | Quantity   |  |
|--------|------------|--|
|        | 1 Pot      |  |
| 1 g    | GBP 154.00 |  |
| 2 g    | GBP 210.00 |  |
| 5 g    | GBP 399.00 |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

PD006015

Max. Particle size . . . . . **10micron**

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



**Web Code**

050-036-937  
 310-341-356  
 365-370-377

| Weight | Quantity   |  |
|--------|------------|--|
|        | 1 Pot      |  |
| 1 g    | GBP 145.00 |  |
| 2 g    | GBP 199.00 |  |
| 5 g    | GBP 343.00 |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.

PD006012

Max. Particle size . . . . . **150micron**

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



**Web Code**

360-230-158  
 094-717-865  
 031-949-959

| Weight | Quantity   |  |
|--------|------------|--|
|        | 1 Pot      |  |
| 1 g    | GBP 145.00 |  |
| 2 g    | GBP 199.00 |  |
| 5 g    | GBP 343.00 |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.



### Lump

PD006100

Max. Lump size . . . . . **6mm**

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

**Web Code**

277-492-349  
 084-342-349  
 171-797-574

| Weight | Quantity |  |
|--------|----------|--|
|        | 1 Pot    |  |
| 2 g    | POA      |  |
| 4 g    | POA      |  |
| 6 g    | POA      |  |

Typical Analysis : Ag 50, Al 1, Ca 1, Cu 10, Fe 10, Mg 1, Na 1, Pb 10, Pt 40, Rh 20, Si 20.  
 Nominally 6mm diameter x 6mm length pellets.

PD006101

Max. Lump size . . . . . **6mm**

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

**Web Code**

484-598-316  
 536-592-330  
 333-014-040

| Weight | Quantity |  |
|--------|----------|--|
|        | 1 Pot    |  |
| 2 g    | POA      |  |
| 4 g    | POA      |  |
| 6 g    | POA      |  |

Typical Analysis : Ag 2, Ca < 1, Cu 1, Fe 2, Mg < 1, Pt 2, Si 2.  
 Nominally 6mm diameter x 6mm length pellets.



### Single Crystal

PD002121

Oriented . . . . . **(100)**  
 Diameter . . . . . **10mm**

Thickness . . . . . **2mm**  
 Condition . . . . . **Polished on 1 side to 1 micron**

**Web Code**

744-475-457

| Quantity | 1pc     |
|----------|---------|
|          | GBP POA |

PD002120

Oriented . . . . . **(100)**  
 Diameter . . . . . **10mm**

Thickness . . . . . **2mm**  
 Condition . . . . . **Unpolished**

**Web Code**

266-965-485

| Quantity | 1pc     |
|----------|---------|
|          | GBP POA |

Metal – Palladium

**Palladium**

**Pd**



**Single Crystal**

**PD002110**

Oriented ..... **(100)**  
 Length ..... **12mm**

Diameter ..... **10mm**

**Quantity**

**Web Code**  
 154-482-379

**1pc**  
 GBP POA

**PD002131**

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

Thickness ..... **2mm**  
 Condition ..... **Polished on 1 side to 1 micron**

**Quantity**

**Web Code**  
 001-853-967

**1pc**  
 GBP POA

**PD002130**

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

Thickness ..... **2mm**  
 Condition ..... **Unpolished**

**Quantity**

**Web Code**  
 720-230-484

**1pc**  
 GBP POA

**Metal – Palladium**

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