Good Fellow





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Standard Price List for Silver

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Introduction

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

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

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

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

Materials

Metals and Alloys

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

Ceramics

The ceramic materials offered by Goodfellow have been carefully chosen, and include both the established as well as more recently developed products. All are available as either standard or custom-made products in a variety of forms and sizes. The Catalogue details those items which are available from stock. For ceramic components made to customer drawings, our Ceramic and Glass Division would be delighted to help. Please visit www.goodfellow-ceramics.com for further information.

Polymers

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

Compounds & Intermetallics

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

Composites

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

Glasses

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

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





Bar

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

Tolerances

Section dimensions: $\leq 10 \text{mm}$ $\pm 10\%$ > 10 mm $\pm 1 \text{mm}$ Length: < 100 mm $\pm 1 \text{mm}$ $\geq 100 \text{mm}$ + 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: $\pm 25\%$ Number of strands: $\pm 10\%$ Tex number: $\pm 10\%$ Length: $\pm 5\%$ / - 1%



Crucible

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

Tolerances

Height: $\pm 10\%$ Inside Dimensions: $\pm 10\%$ 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: $\pm 25\%$ Number of yarns: $\pm 10\%$ Tex number: $\pm 10\%$

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

 \geqslant 100mm \pm 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: $\pm 25\%$ Number of strands: $\pm 10\%$ Tex number: $\pm 10\%$ Length: + 5% / -1%



Film

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

Tolerances

Thickness: $\pm 20\%$

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



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





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 $\pm 25\%$

 $0.01\text{-}0.05\text{mm} \pm 15\%$

> 0.050mm $\pm 10\%$ 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: $\pm 10\%$ 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: $\pm 10\%$

Size (linear dimension): ≤ 100 mm ± 1 mm

> 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: $\pm 10\%$

electroformed: ±20%

Wire diameter: $\pm 10\%$

Size (linear dimension): < 100 mm $\pm 1 \text{mm}$

≥ 100mm + 2% / -1%





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): < 100 mm $\pm 1 \text{mm}$ $\geq 100 \text{mm}$ + 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: $\pm 5\% / -1\%$



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): $< 100 \text{mm} \qquad \pm 5 \text{mm}$ $> 100 \text{mm} \qquad + 5\%$



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 inchthreaded 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





Rod

A straight length of circular section material.

Tolerances

Diameter: $\leq 10 \text{mm}$ $\pm 10\%$

Polymer +20%/-10%Ceramic +20%/-10%

> 10mm ± 5 %

Ceramic +20%/-10%Polymer +20%/-10%

+5% / -1%

Length: < 100mm ± 1 mm

≥ 100mm



Sheet

Flat material with a thickness > 0.5mm.

Tolerances

Thickness: $\pm 10\%$

Ceramic $\pm 20\%$ Composite $\pm 20\%$

Polymer $\pm 20\%$

Size (linear dimension): < 100mm ± 1 mm

 \geqslant 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: $\pm 3^{\circ}$

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): $\pm 5\%$ 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: ± 0.5 mm Size: ± 0.5 mm



Tube

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

Tolerances

Outside diameter: ≤ 2 mm ± 0.05 mm

Polymer $\pm 10\%$ Ceramic $\pm 10\%$

 \leq 5mm \pm 0.1mm Polymer \pm 10% Ceramic \pm 10%

> 5mm $\pm 5\%$ Polymer $\pm 10\%$ Ceramic $\pm 10\%$

Wall thickness: + 10%

Polymer $\pm 20\%$ Ceramic $\pm 20\%$

Length: < 100 mm + 1 mm

≥ 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





Wire

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

Tolerances

Wire diameter: \pm 10% Length: \pm 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



Corrosive

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



Dangerous when wet

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



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.



Extremely Flammable

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



Harmful

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



Highly flammable

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



Irritant

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



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.



Toxic

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



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 $3.5\mu m$ polyester support. This support **cannot** be removed without destroying the Microfoil.

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

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

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

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

Vacuum tight

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

Continuous Lengths

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

Technical Data and Information

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

Tolerances

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



Order information

General Information

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

Prices

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

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

Transport Restriction

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

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

Delivery

Split shipment

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

Special Analysis, Supports or Tolerances

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

Cancellations

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

Express Service

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

Shipment

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

Despatch

Orders will normally be despatched within 48 hours of receipt.

Non delivery

If we have notified you of despatch of goods and you have not received delivery within 7 days, please contact us.

Insurance

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

Export Restrictions

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

Materials Handling

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

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

Terms of payment

Our normal terms of payment are net 30 days from date of invoice. Any alternative terms of payment are to be agreed with us in writing at the time of placing an order. Customers may be asked to pay cash with order or cash against pro-forma invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.



Order information

Credit account

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

Credit card payments

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

Mastercard, VISA, American Express, DELTA and Switch.

VAT

VAT number: GB 212 8527 79

UK

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

EU

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

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

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

Export

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

Return of goods

We will only accept return of goods provided we are contacted BEFORE the goods are returned. When we agree to the return we will issue a Goods Return Number and give instructions for the method of return of the goods. Goods will not be accepted for return without a valid Goods Return Number. Due to the nature of some of our materials, it is imperative that you check any possible transport restrictions with your proposed freight company.

Claims

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

Goods ordered in error

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

Conditions of sale

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

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

Exclusions

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

Law

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

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

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



Order information

Customers in the UK and all other countries: Contracts between Goodfellow Cambridge Limited and the customer shall be deemed to be subject in all respects to English law unless otherwise agreed in writing. Copies of our General Terms and Conditions are available upon request or can be downloaded from our websites at www.goodfellow.com or www.goodfellowusa.com.



Company Details

Company Structure

The Goodfellow Group consists of five companies:

Goodfellow Cambridge Limited

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

Goodfellow Corporation

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

Goodfellow GmbH

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

Goodfellow SARL

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

Goodfellow (Shanghai) Trading Co., Ltd

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

COMPANY DETAILS

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Goodfellow (Shanghai) Trading Co., Ltd

FI. 23, 758 Nanjing Road West SHANGHAI 200040 The People's Republic of China



GENERAL

1.1 In these Conditions:
1.1.1 the following expressions shall have the following meanings:-

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; a contract for the Supply of Goods and/or Services by the Seller to the Buyer;

"Contract"

"Date of Delivery" the date on which delivery of the Goods or Services takes place pursuant to Condition 7; 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; 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

ons 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

"Seller

Supplier); 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; 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
- 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
- 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
- In relation to all obligations of the Buyer under these Conditions, the time of performance is of the essence
- The legal construction of these Conditions shall not be effected by their headings which are for convenience of reference only **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 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

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
- 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

SPECIFICATIONS AND INTELLECTUAL PROPERTY

- 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 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 idemnified 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
- 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 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

QUOTATIONS

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

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
 - 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
 - Teduction of the total price payable by the buyer times the Contract;

 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.

- Delivery of Goods shall be deemed to be effected by the Seller at the
 - 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



- accordance with a means of delivery specifically requested by the Buyer, when the same are collected; .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 fbe 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 beginning.
- 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 withold 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. 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:

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 y cancellation by the Buyer will only be binding upon the Seller if it is made in writing
- 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

- .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 2 The Buyer standing 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,



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
 - 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

 - uniess ornerwise 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

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 keen indemnified the Seller in full
- 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

 - 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
- 20.4 In this Condition 20, "Business Day" shall mean any day other than Saturday, Sunday or any other day which is a public holiday in the place at which the notice is left or to which such notice is despatched

21 WAIVER



Conditions of Sale							
21.1 No waiver by the Seller of any breach of any provision of the Contract by the Buyer shall be considered as a waiver of any subsequent breach	of the same or any other provision and the Seller shall not be prejudiced by any forbearance or indulgence granted by it to the Buyer						



Silver

Ag

Silver was known to ancient civilisations.

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

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

Atomic Properties			Electrical Properties				
Atomic number	47		Electrical resistivity @20C			1.63 μOhmcm	1
Atomic radius - Goldschmidt	0.144 nm		Temperature coefficient @0-10	0C		0.0041 K ⁻¹	
Atomic weight	107.8682 amu		Thermal emf against Pt (cold 0C	hot 100C)		+0.74 mV	
Crystal structure	Face centred cubic	;					
Electronic structure	Kr 4d ¹⁰ 5s ¹		Thermal Properties				
Photo-electric work function	4.7 eV		Coefficient of thermal expansion	@0-100C		19.1 x10 ⁻⁶ K ⁻¹	
Thermal neutron absorption cross-s	ection 63.8 Barns		Latent heat of evaporation			2390 J g ⁻¹	
Valences shown	1, 2		Latent heat of fusion			103 J g ⁻¹	
			Specific heat @25C			237 J K ⁻¹ kg ⁻¹	
Natural isotope distribution	Mass No.	%	Thermal conductivity @0-100C			429 W m ⁻¹ K ⁻¹	í
	107	51.83					
	109	48.17	Mechanical Properties				
			Material condition	Soft	Hard	Polycrystallin	e
Ionisation potential	No.	eV	Bulk modulus			103.6	GPa
	1	7.58	Hardness - Vickers	25	95		
	2	21.5	Izod toughness	5 J m ⁻¹			
	3	34.8	Poisson's ratio			0.367	
			Tensile modulus			82.7	GPa
Physical Properties			Tensile strength	172	330	MPa	
Boiling point	2212 C						
Density @20C	10.5 g cm ⁻³						
Melting point	961.9 C						



Microfoil

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

AG004500	Thinness 0.1μm Purity 99.95+%	Area density							
		Quantity							
	Web Code	Disc diam. 1 disc 2discs 5discs 10discs							
	502-728-592	10 mm YEN 31600 YEN 43000 YEN 77000 YEN 122000							
	133-148-448	25 mm YEN 46800 YEN 65500 YEN 122000 YEN 198000							
	Typical Analysis : Starting Material : Al 1, A This item is normally made to order f	uu 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1. ior delivery within 4-5 weeks.							
AG004600	Thinness 0.25μm Purity 99.95+%	Area density 262.3µg.cm ⁻² Support Permanent Mylar 3.5µm							
		Quantity							
	Web Code	Disc diam. 1 disc 2discs 5discs 10discs							
	499-815-288 613-831-689	10 mm YEN 35000 YEN 48000 YEN 87000 YEN 139000 25 mm YEN 52500 YEN 74000 YEN 139000 YEN 226000							
	013-031-009	23 IIIII I EN 32300 I EN 74000 I EN 135000 I EN 220000							
	Typical Analysis : Starting Material : Al 1, A This item is normally made to order f	uu 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1. ior delivery within 4-5 weeks.							
AG004700	Thinness 0.5μm Purity 99.95+%								
		Quantity							
	Web Code 010-399-808	Disc diam. 1 disc 2discs 5discs 10 discs 10 mm YEN 37200 YEN 51500 YEN 94000 YEN 151000							
	497-143-426	10 mm YEN 37200 YEN 51500 YEN 94000 YEN 151000 25 mm YEN 56000 YEN 80000 YEN 151000 YEN 245000							
	137 140 420	25 Hill 1214 50000 1214 60000 1214 151000 1214 245000							
	Typical Analysis: Starting Material: Al 1, A This item is normally made to order for	uu 10, Bi <1, Ca 1, Cd <1, Cr <1, Cu 5, Fe 8, Mg <1, Mn <1, Na <1, Pb 1, Pd 3, Si 2, Sn <1. ior delivery within 4-5 weeks.							
AG004850	Thinness 1.0μm	Area density1098μg.cm ⁻²							
70004000	Purity 99.95%	Support Permanent Mylar 3.5μm							
	Quantity								
	Web Code	Disc diam. 1 disc 2discs 5discs 10discs							
	071-947-970	10 mm YEN 43000 YEN 60000 YEN 111000 YEN 179000							
	186-307-277	25 mm YEN 65500 YEN 94000 YEN 179000 YEN 292000							
	Typical Analysis: Starting Material: Al 1, A This item is normally made to order f	$_{ m Au}$ 10, Bi < 1, Ca 1, Cd < 1, Cr < 1, Cu 5, Fe 8, Mg < 1, Mn < 1, Na < 1, Pb 1, Pd 3, Si 2, Sn < 1. For delivery within 4-5 weeks.							



Silver Ag							
~ 9							
	Foil						
AG000080	Thickness 0.00075n Support Tempora		Purity.		99.97%		
	Sizes LT	Simo	4	Quantity	E		
	Web Code 258-839-381 016-910-070	Size 25 x 25 mm 50 x 50 mm	1pc YEN 41800 YEN 70000	2pcs YEN 54500 YEN 94500	5pcs YEN 81000		
	Typical Analysis : Al 4, Au 8, Bi 3, Ca 40,	Cd 2, Cr 20, Cu 20, Fe	e 60, Mg 3, Mn 5	Na 10, Ni 5, Pb	40, Si 20, Sn 1.		
AG000090	Thickness 0.001mm	1	Purity.		99.97%		
	Sizes LT	Si-a	4	Quantity	E		
	Web Code 802-171-091	Size 25 x 25 mm	1pc YEN 40000	2pcs YEN 52000	5pcs YEN 77500		
	864-405-528	50 x 50 mm	YEN 67000	YEN 90000			
	Typical Analysis : Al 4, Au 8, Bi 3, Ca 40,	Cd 2, Cr 20, Cu 20, Fe	e 60, Mg 3, Mn 5	Na 10, Ni 5, Pb	40, Si 20, Sn 1.		
AG000100	Thickness 0.002mm	1	Purity.	Ouantity	99.97%		
	Sizes LT Web Code	Size	1pc	Quantity 2pcs	5pcs		
	600-993-073 503-665-161	25 x 25 mm 50 x 50 mm	YEN 38600 YEN 64000	YEN 50000 YEN 85500	YEN 74000		
	748-227-888	100 x 100 mm					
	Typical Analysis : Al 4, Au 8, Bi 3, Ca 40,	Cd 2, Cr 20, Cu 20, Fe	e 60, Mg 3, Mn 5	Na 10, Ni 5, Pb	40, Si 20, Sn 1.		
AG000110	Thickness 0.0025m	m	Purity.		99.97%		
	Sizes LT	Sina	4	Quantity	E		
	Web Code 063-757-647	Size 25 x 25 mm	1pc YEN 37000	2pcs YEN 47800	5pcs YEN 70500		
	819-778-884 456-816-661	50 x 50 mm 100 x 100 mm	YEN 60500 YEN 148000	YEN 81500			
	Discs			Quantity			
	Web Code 810-663-268	Diameter 4 mm	10 discs YEN 42400	20 discs YEN 52000	50 discs YEN 74500		
	332-905-799	6 mm	YEN 49200	YEN 61500	YEN 89500		
	613-216-216 652-025-998	8 mm 10 mm	YEN 56000 YEN 62500	YEN 71000 YEN 81000	YEN 105000 YEN 122000		
	503-247-453	15 mm	YEN 79500	YEN 105000			
	Typical Analysis : Al 4, Au 8, Bi 3, Ca 40,	Cd 2, Cr 20, Cu 20, Fe	e 60, Mg 3, Mn 5	Na 10, Ni 5, Pb	40, Si 20, Sn 1.		
AG000215	Thickness 0.003mm	1	Purity.				
	Sizes LT Web Code	Size	1pc	2pcs	Quantity 5pcs	10pcs	20pcs
	417-513-013 207-078-044	25 x 25 mm 50 x 50 mm	YEN 26800 YEN 37200	YEN 31600 YEN 46400	YEN 41400 YEN 65000	YEN 53500	YEN 71000 YEN 118000
	860-002-847 240-315-838	100 x 100 mm 150 x 150 mm	YEN 58500 YEN 79500		YEN 112000		110000
			1 LIV 7 3 3 0 0		. [] 177000		
	Coil Web Code	Width 150mm Length	1 Reel	Quantity			
	550-973-987 871-743-228	0.2 m	YEN 97500 YEN 140000				
		0.0 111	. 211 170000	•			
	Discs Web Code	Diameter	10 discs	Quantity 20 discs	50 discs		
	987-773-450 471-677-462	4 mm 6 mm	YEN 37600 YEN 40800	YEN 45200 YEN 49800	YEN 63000 YEN 70000		
	959-685-681 960-711-041	8 mm 10 mm	YEN 44000 YEN 47200	YEN 54500 YEN 59000	YEN 77500 YEN 84500		
	088-875-840	15 mm	YEN 55000	YEN 70000	YEN 102000		
	109-484-843 685-612-208	25 mm 50 mm	YEN 71000 YEN 111000		YEN 138000		
	Typical Analysis: Al 1, Au 20, Bi 1, Ca 3,	Cd 20, Cr < 1, Cu 500), Fe 7, Mg 1, Mn	<1, Na 1, Ni 10	, Pb 50, Si <1. \$	Sn 3.	
	,, ,	.,,	,	,,		-	



Silver Αg Foil Thickness 0.004mm Purity..... 99.97% AG000120 Sizes LT Quantity 1pc 2pcs YEN 34000 YEN 43600 YEN 54500 YEN 75500 YEN 1360000 YEN 259000 **2pcs 5pcs** YEN 43600 YEN 64000 YEN 75500 YEN 170000 Web Code Size 10pcs 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm 147-837-113 557-363-762 YEN 64000 YEN 95500 987-685-476 263-977-826 Discs Quantity **10 discs** YEN 40800 YEN 46600 20 discs YEN 49400 YEN 58000 **50 discs** YEN 70500 YEN 84000 Web Code Diameter 639-281-543 910-194-262 4 mm 6 mm YEN 52500 YEN 58500 YEN 73000 YEN 66500 YEN 75000 YEN 95500 YEN 98000 YEN 115000 774-286-045 8 mm 785-757-325 10 mm 219-666-000 15 mm YEN 200000 458-262-183 25 mm YEN 115000 YEN 204000 Typical Analysis: Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1. AG000130 Thickness 0.005mm Purity..... 99.97% Quantity Sizes LT Web Code Size 2pcs 5pcs 10pcs YEN 32600 YEN 52000 YEN 41600 YEN 60500 YEN 72500 YEN 163000 119-458-752 907-520-034 25 x 25 mm 50 x 50 mm YEN 92000 557-261-958 100 x 100 mm YEN 130000 YEN 247000 927-717-812 150 x 150 mm YEN 275000 Quantity Discs **10 discs** YEN 40000 YEN 45400 **50 discs** YEN 69000 Web Code Diameter **20 discs** YEN 48400 930-460-689 4 mm YEN 56000 YEN 64000 YEN 72000 307-587-446 6 mm YEN 81500 448-433-402 054-183-126 8 mm 10 mm YEN 51000 YEN 56500 YEN 94000 YEN 111000 772-889-895 YEN 70000 YEN 92000 YEN 192000 25 mm YEN 111000 611-234-961 Typical Analysis: Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1. AG000140 Thickness 0.006mm Purity..... 99.97% Sizes LT Quantity Size 1pc 2pcs 25 x 25 mm YEN 31200 YEN 39600 50 x 50 mm YEN 49000 YEN 69500 100 x 100 mm YEN 124000 YEN 235000 Web Code 10pcs YEN 88500 059-853-009 294-929-058 150 x 150 mm YEN 262000 **Discs** Quantity **10 discs** YEN 39200 **20 discs** YEN 47200 **50 discs** YEN 67000 Web Code Diameter 641-738-431 217-307-116 4 mm 6 mm YEN 54500 YEN 62000 YEN 69000 YEN 89000 YEN 44200 YEN 49400 YEN 78500 YEN 90500 163-398-004 8 mm YEN 54500 YEN 67000 YEN 108000 424-750-911 10 mm YEN 185000 15 mm 25 mm YEN 106000 734-260-793 YEN 187000 Typical Analysis: Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1. Thickness 0.007mm AG000150 Quantity Sizes LT Web Code 326-746-972 **2pcs** YEN 39400 **10pcs** YEN 87000 Size **1pc** YEN 31000 **5pcs** YEN 57000 25 x 25 mm YEN 48800 YEN 68500 YEN 122000 YEN 231000 50 x 50 mm 100 x 100 mm 150 x 150 mm 501-955-169 YEN 68500 YEN 153000 413-606-998 160-919-067 YEN 257000 Quantity **Discs** Web Code 097-423-503 **10 discs** YEN 39000 **20 discs** YEN 47000 **50 discs** YEN 67000 Diameter 4 mm YEN 54000 YEN 61500 YEN 69000 YEN 88000 177-942-772 6 mm YEN 44200 YEN 78500 YEN 90000 242-841-457 YFN 49200 8 mm YEN 107000 YEN 182000 355-181-693 397-706-464 YEN 54500 YEN 67000 10 mm 15 mm 25 mm YEN 105000 YEN 185000 Typical Analysis: Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1.



Foil AG000218 Thickness	Silver							
AG000218 Thickness 0.008mm Purity 99.95+% Sizes LT Web Code 25 × 25 mm YEA 2500 YEN 2200 YEN 34400 YEN 34600	Ag							
Sizes LT		Foil						
Web Code Size 1pc 2pcs 2pcs 1pcs 2pcs 2pcs 34400 2pcs 1pcs 2pcs 384461-863 35 450 mm YEA 29800 YEA 31600 YEA 34600 YEA 34500	AG000218			Purity			%	
Sa0-461-463		Web Code				5pcs		
Web Code		380-461-463	50 x 50 mm	YEN 31600	YEN 38400	YEN 52000	YEN 68000	
014-097-239				4 Basil	Quantity			
Discs Web Code A25-127-340		014-097-239	0.2 m	YEN 64500				
Web Code								
### 475-127-340 ### 787-884-097 ### 978-7-884-097 ### 357-894-0967 ### 378-7-894-097 ### 378-7-894-097 ### 378-7-894-097 ### 378-7-894-097 ### 378-7-894-097 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ### 389-006 ###			Diameter	10 discs		50 discs		
3672-40-566		425-127-340	4 mm	YEN 33600 YEN 36000	YEN 38600	YEN 50000		
T24-697-271		357-240-566	8 mm	YEN 38400	YEN 45400	YEN 61000		
238-369-906 50 mm YEN 89000 YEN 117000		724-697-271 527-673-445	15 mm 25 mm	YEN 46800 YEN 59000	YEN 57500 YEN 74500	YEN 79500		
NLT Sizes Web Code		238-369-906	50 mm	YEN 89000	YEN 117000			
NLT Sizes Size 451-684-310 25 x 25 mm	AG000160	•	In 5.	Purity		99.97%		
451-684-310	A0000100	NLT Sizes	a .	-	Quan	tity	40	
Sizes LT Web Code 157-082-361 100 x 100 mm YEN 118000 YEN 224000		451-684-310	25 x 25 mm	YEN 30000	YEN 37800	YEN 54500		
Sizes LT Web Code 157-082-361 25 x 25 mm YEN 32800 YEN 41600 YEN 60000 YEN 93000		827-533-759	100 x 100 mm	YEN 118000		YEN 148000		
Neb Code 157-082-361 25 x 25 mm		835-332-156	150 x 150 mm	YEN 249000				
157-082-361			Size	1nc		-	10ncs	
Web Code								
183-311-414 4 mm			_					
241-258-573		183-311-414	4 mm	YEN 38400	YEN 46200	YEN 65500		
15 mm YEN 64500 YEN 178000 YEN 17800		241-258-573	8 mm	YEN 47800	YEN 59500	YEN 87000		
Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Cd 2, Cr 20, Cu 20, Fe 60, Mg 3, Mn 5, Na 10, Ni 5, Pb 40, Si 20, Sn 1. AG000170 Thickness 0.009mm		665-507-105	15 mm	YEN 64500	YEN 86000	YEN 105000 YEN 178000		
NLT Sizes Web Code O87-305-039 25 x 25 mm YEN 28800 YEN 36200 YEN 52000 YEN 83000 YEN 243000 YEN 345000 YEN 345000 YEN 345000 YEN 34500						40 Si 20 Sp 1		
NLT Sizes Size 1pc 2pcs 5pcs 10pcs	AG000170		1 2, Cr 20, Cu 20, F					
087-305-039 25 x 25 mm YEN 28800 YEN 36200 YEN 52000 YEN 83000 964-335-883 50 x 50 mm YEN 44200 YEN 65500 YEN 145000 YEN 145000 996-173-163 100 x 100 mm YEN 218000 YEN 218000 YEN 218000 Guantity Web Code 1pc 2pcs 5pcs 10pcs 961-738-827 4 mm YEN 37800 YEN 57500 YEN 91500 217-353-677 6 mm YEN 37800 YEN 52000 YEN 64000 169-209-416 8 mm YEN 46000 YEN 51500 YEN 84500 151-182-531 10 mm YEN 51000 YEN 85000 YEN 103000 897-814-295 15 mm YEN 60000 YEN 176000 YEN 176000 226-785-777 25 mm YEN 101000 YEN 176000			Size	1nc		•	10ncs	
718-327-313 996-173-163 100 x 100 mm YEN 115000 YEN 218000 YEN 243000 Sizes LT Web Code 966-878-374 25 x 25 mm YEN 31800 YEN 39800 YEN 57500 YEN 91500 Discs Web Code 961-738-827 961-738-827 100 x 100 mm YEN 115000 YEN 39800 YEN 57500 YEN 91500 Quantity Quantity Quantity Quantity YEN 31800 YEN 57500 YEN 91500 YEN 91500 Discs Web Code 961-738-827 4 mm YEN 37800 YEN 45200 YEN 64000 217-353-677 6 mm YEN 42200 YEN 51500 YEN 74000 169-209-416 8 mm YEN 42200 YEN 51500 YEN 74000 151-182-531 10 mm YEN 46600 YEN 58000 YEN 84500 151-182-531 10 mm YEN 51000 YEN 64500 YEN 103000 151-182-531 15 mm YEN 62000 YEN 85000 YEN 174000 226-785-777 25 mm YEN 101000 YEN 176000		087-305-039	25 x 25 mm	YEN 28800	YEN 36200	YEN 52000		
Sizes LT Web Code Size 966-878-374 1pc 25 x 25 mm 2pcs YEN 39800 5pcs YEN 91500 10pcs YEN 91500 Discs Web Code 961-738-827 217-353-677 6 mm YEN 37800 217-353-677 6 mm YEN 42200 YEN 51500 YEN 54000 YEN 51500 YEN 51500 YEN 51500 YEN 51500 YEN 51500 YEN 51500 YEN 84500 YEN 103000 YEN 103000 YEN 84500 YEN 103000 YEN 1030		718-327-313	100 x 100 mm	YEN 115000		1214 140000		
Web Code Size 1pc 2pcs 5pcs 10pcs 966-878-374 25 x 25 mm YEN 31800 YEN 39800 YEN 57500 YEN 91500 Discs Web Code Diameter 10 discs 20 discs 50 discs 961-738-827 4 mm YEN 37800 YEN 45200 YEN 64000 217-353-677 6 mm YEN 42200 YEN 51500 YEN 74000 169-209-416 8 mm YEN 46600 YEN 58000 YEN 84500 151-182-531 10 mm YEN 51000 YEN 64500 YEN 103000 897-814-295 15 mm YEN 62000 YEN 85000 YEN 174000 226-785-777 25 mm YEN 101000 YEN 176000			100 X 100 Hilli	1211 2 10000	•	***		
Discs Quantity Web Code Diameter 10 discs 20 discs 50 discs 961-738-827 4 mm YEN 37800 YEN 45200 YEN 64000 217-353-677 6 mm YEN 42200 YEN 51500 YEN 74000 169-209-416 8 mm YEN 46600 YEN 58000 YEN 84500 151-182-531 10 mm YEN 51000 YEN 64500 YEN 103000 897-814-295 15 mm YEN 62000 YEN 85000 YEN 174000 226-785-777 25 mm YEN 101000 YEN 176000		Web Code			2pcs	5pcs		
Web Code Diameter 10 discs 20 discs 50 discs 961-738-827 4 mm YEN 37800 YEN 45200 YEN 64000 217-353-677 6 mm YEN 51500 YEN 74000 169-209-416 8 mm YEN 46600 YEN 58000 YEN 84500 151-182-531 10 mm YEN 51000 YEN 64500 YEN 103000 897-814-295 15 mm YEN 62000 YEN 85000 YEN 174000 226-785-777 25 mm YEN 101000 YEN 176000		966-878-374	25 x 25 mm	YEN 31800	YEN 39800	YEN 57500	YEN 91500	
961-738-827 4 mm YEN 37800 YEN 45200 YEN 64000 217-353-677 6 mm YEN 42200 YEN 51500 YEN 74000 169-209-416 8 mm YEN 46600 YEN 58000 YEN 84500 151-182-531 10 mm YEN 51000 YEN 64500 YEN 103000 897-814-295 15 mm YEN 62000 YEN 85000 YEN 174000 226-785-777 25 mm YEN 101000 YEN 176000			Diameter	10 dises		E0 discs		
169-209-416 8 mm YEN 46600 YEN 58000 YEN 84500 151-182-531 10 mm YEN 51000 YEN 64500 YEN 103000 897-814-295 15 mm YEN 62000 YEN 85000 YEN 174000 226-785-777 25 mm YEN 101000 YEN 176000		961-738-827	4 mm	YEN 37800	YEN 45200	YEN 64000		
897-814-295		169-209-416	8 mm	YEN 46600	YEN 58000	YEN 84500		
		897-814-295	15 mm	YEN 62000	YEN 85000			
. yprodrzemijore z. z., z. d. o., o. z., o., o. z., o. z., o. z., o. z., i e. o., mg o, mir o, na i u, ni o, na i u, ni o, na o, o. z., oi i i.						40 Si 20 Sn 1		
		Typical Allalysis . Al 4, Au 6, Bl 3, Ca 40, Ct	1 2, Cl 20, Cu 20, F	e oo, ivig s, iviii s	, INA 10, INI 5, FD	40, 31 20, 311 1.		



Silver							
Ag	E. II						
	Foil						
AG000220	Thickness 0.01mm		Purity.		99.95+9	%	
	Sizes LT Web Code 718-790-244 124-735-358 242-160-495 607-362-153	25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm	1pc YEN 23600 YEN 31200 YEN 46800 YEN 62000	2pcs YEN 27000 YEN 37800 YEN 60000 YEN 81500	Quantity	10pcs YEN 42400 YEN 67000 YEN 116000	20pcs YEN 55000 YEN 89500
	Coil Web Code 967-224-995 109-319-479 516-107-772		1 Reel YEN 73500 YEN 104000 YEN 140000	Quantity			
	Discs Web Code 640-800-759 100-094-601 511-833-017 979-126-379 390-792-002 849-010-684 126-325-541	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm 50 mm	10 discs YEN 33600 YEN 36000 YEN 38200 YEN 46400 YEN 46400 YEN 58000 YEN 87500	Quantity 20 discs YEN 38600 YEN 41800 YEN 45200 YEN 48400 YEN 57000 YEN 73500 YEN 115000	50 discs YEN 50000 YEN 55000 YEN 60500 YEN 65500 YEN 79000 YEN 105000		
AG000241	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z Thickness	in 5.	Coil wi	idth	9mm		
AG000241	Purity	Width 9mm Length 0.5 m 1 m 2 m 5 m 10 m	1 Reel YEN 22800 YEN 27800 YEN 35200 YEN 49800 YEN 66500	Quantity			
AG000240	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z Thickness	'n 5.	Purity		99.95+9	%	
40000240	NLT Sizes Web Code	Size	1pc	2pcs	Quantity 5pcs	10pcs	20pcs
	621-115-391 497-760-149 888-011-625	25 x 25 mm 50 x 50 mm 100 x 100 mm	YEN 22800 YEN 28600 YEN 40400	YEN 26200 YEN 34600 YEN 51000	YEN 34200 YEN 47400	YEN 44800 YEN 63500 YEN 101000	YEN 63000 YEN 89500
	Sizes LT Web Code 550-963-319 829-722-773	Size 25 x 25 mm 50 x 50 mm	1pc YEN 25000 YEN 35800	2pcs YEN 28800 YEN 43200	Quantity 5pcs YEN 37600 YEN 59000	10pcs YEN 49400 YEN 79500	20pcs YEN 69500 YEN 112000
	Coil Web Code 953-526-994 373-796-506 724-567-238	Width 100mm Length 0.5 m 1 m 2 m	1 Reel YEN 73000 YEN 94500 YEN 126000	Quantity			
	Discs Web Code 043-120-229 390-032-416 754-060-469 257-552-170 194-014-541 251-815-792 476-970-709	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm	10 discs YEN 42200 YEN 44000 YEN 45800 YEN 47600 YEN 52000 YEN 61000 YEN 83500	Quantity 20 discs YEN 56000 YEN 59000 YEN 61500 YEN 64000 YEN 70000 YEN 83000 YEN 115000			
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	in 5.					



Silver							
A g							
	Foil						
AG000180	Thickness 0.015mm NLT Sizes		Purity	Quan			
	Web Code 068-112-645 893-386-078	Size 50 x 50 mm 100 x 100 mm	1pc YEN 32400 YEN 88000		5pcs YEN 111000	10pcs	
	584-187-924 Sizes LT	150 x 150 mm	YEN 181000	Quan	itity		
	Web Code 070-215-615 750-948-709 653-969-204	Size 25 x 25 mm 50 x 50 mm 100 x 100 mm	1pc YEN 23000 YEN 35800 YEN 110000	2pcs YEN 28000 YEN 57000 YEN 205000	5pcs YEN 40800 YEN 122000	10pcs YEN 66000	
	Discs Web Code	Diameter	10 discs	Quantity 20 discs	50 discs		
	154-485-293 310-650-942 831-363-484	4 mm 6 mm 8 mm	YEN 34600 YEN 37200 YEN 40000	YEN 40600 YEN 44400 YEN 48400	YEN 56500 YEN 63000 YEN 72000		
	920-432-445 054-057-237 757-154-216	10 mm 15 mm 25 mm	YEN 42800 YEN 49600 YEN 81500	YEN 52500 YEN 71000 YEN 137000	YEN 87500 YEN 139000		
	Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Co	1 2, Cr 20, Cu 20, Fe				.,	
AG000250	Thickness	Size	•	2nce	Quantity		20pcs
	127-639-319 510-731-413 763-508-543 726-794-836	25 x 25 mm 50 x 50 mm 100 x 100 mm 200 x 200 mm	YEN 23400 YEN 29800 YEN 42600 YEN 68500	2pcs YEN 27000 YEN 36200 YEN 54500 YEN 91000	5pcs YEN 35400 YEN 49800 YEN 79000 YEN 141000	10pcs YEN 46600 YEN 67000 YEN 108000	YEN 65500 YEN 94500
	Sizes LT Web Code	Size	1pc	2pcs	Quantity 5pcs	10pcs	20pcs
	839-442-997 393-926-797	25 x 25 mm 50 x 50 mm	YEN 25600 YEN 37200	YEN 29800 YEN 45200	YEN 39000 YEN 62500	YEN 51500 YEN 84000	YEN 72000 YEN 118000
	Coil Web Code 682-260-264 808-978-440 326-575-424		1 Reel YEN 73000 YEN 104000 YEN 146000	Quantity			
	Discs Web Code 465-583-563	Diameter 4 mm	10 discs YEN 42600	Quantity 20 discs YEN 56500	50 discs YEN 85000		
	716-027-920 780-559-044	6 mm 8 mm	YEN 44600 YEN 46600 YEN 48600	YEN 59500 YEN 62500	YEN 89500 YEN 93500		
	527-540-928 949-719-321 055-751-580 890-724-771	10 mm 15 mm 25 mm 50 mm	YEN 53500 YEN 63000	YEN 65000 YEN 72000 YEN 86000 YEN 121000	YEN 98000 YEN 109000 YEN 131000		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	ľn 5.					
AG000190	Thickness 0.02mm NLT Sizes		Purity	Quan			
	Web Code 606-981-223 590-086-971	Size 100 x 100 mm 150 x 150 mm		2pcs YEN 159000	5pcs	10pcs	
	Sizes LT Web Code	Size	1pc	Quan 2pcs	5pcs	10pcs	
	320-183-743 891-104-700 378-717-924	25 x 25 mm 50 x 50 mm 100 x 100 mm	YEN 22800 YEN 32200 YEN 94500	YEN 27800 YEN 50500 YEN 175000	YEN 40200 YEN 108000	YEN 64500	
	Discs Web Code	Diameter	10 discs	Quantity 20 discs	50 discs		
	309-355-508 669-447-403 680-932-646	4 mm 6 mm 8 mm	YEN 34400 YEN 37200 YEN 39800	YEN 40400 YEN 44400 YEN 48200	YEN 56500 YEN 62500 YEN 71000		
	116-584-830 573-110-306 638-799-133	10 mm 15 mm 25 mm	YEN 42600 YEN 49200 YEN 80000	YEN 52000 YEN 70000 YEN 134000	YEN 86000 YEN 137000		
	Typical Analysis : Al 4, Au 8, Bi 3, Ca 40, Co	i 2, Cr 20, Cu 20, Fe	e 60, Mg 3, Mn 5	, Na 10, Ni 5, Pb	40, Si 20, Sn 1.		



Silver Ag Foil Thickness 0.025mm AG000260 Purity.......99.95+% Temper As rolled **NLT Sizes** Quantity 10pcs YEN 23600 YEN 32200 YEN 49400 20pcs YEN 28800 YEN 41000 YEN 65500 Web Code 759-561-708 667-264-012 **2pcs** YEN 16900 **5pcs** YEN 20200 Size **1pc** YEN 15400 25 x 25 mm YEN 18100 YEN 23600 YEN 29000 50 x 50 mm 100 x 100 mm YEN 20800 YEN 28400 YEN 26200 969-969-862 YFN 36200 848-083-788 150 x 150 mm YFN 50500 YFN 66500 YFN 90500 648-362-876 300 x 300 mm Sizes LT Quantity 1pc YEN 16200 YEN 19000 YEN 26000 YEN 32000 2pcs YEN 17700 YEN 21800 YEN 31200 YEN 39800 5pcs YEN 21200 YEN 27600 YEN 42200 10pcs YEN 24800 YEN 33800 YEN 54500 20pcs YEN 30400 YEN 43000 YEN 72000 Size Web Code 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm 704-557-205 339-807-339 145-023-053 YEN 73500 YEN 71000 YEN 106000 163-644-597 300 x 300 mm YFN 54500 Width 100mm Quantity Coil 1 Reel YEN 41000 YEN 51000 Web Code Length 400-176-204 022-029-833 0.5 m 1 m 2 m YEN 65500 753-734-219 Quantity Discs Web Code 216-782-512 097-818-038 **10 discs** YEN 26800 YEN 27600 20 discs YEN 29600 YEN 30800 **50 discs** YEN 37200 YEN 39000 Diameter 4 mm 6 mm 227-250-649 406-333-546 YEN 28400 YEN 29400 8 mm YEN 32000 YEN 42800 10 mm YEN 33200 791-689-668 961-207-384 YEN 31400 YEN 35600 YEN 36000 YEN 42000 YEN 47400 YEN 56500 15 mm 25 mm 150-924-344 50 mm YEN 46000 YEN 56500 YEN 80000 Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5, Thickness 0.025mm AG000270 Size Quantity Web Code 1pc YEN 22600 YEN 32600 5pcs YEN 36200 YEN 58500 Size 2pcs 10pcs 20pcs 865-538-387 192-296-874 25 x 25 mm 50 x 50 mm YEN 27000 YEN 41000 YEN 46400 YEN 77500 YEN 61000 100 x 100 mm 150 x 150 mm 037-104-945 YEN 52500 YEN 69000 YEN 123000 YEN 72000 YEN 111000 638-119-973 Width 150mm Coil Quantity 1 Reel YEN 85500 Web Code Length 764-997-358 624-673-869 0.2 m YEN 85500 0.5 m YEN 180000 Quantity 20 discs YEN 35800 YEN 40200 YEN 44400 YEN 48800 YEN 59500 10 discs YEN 31200 YEN 34200 YEN 37200 **Web Code** 529-501-916 187-746-361 **50 discs** YEN 47000 YEN 54000 Diameter 4 mm 6 mm 468-297-959 8 mm YEN 61000 YEN 67500 537-237-852 154-727-394 YEN 40400 10 mm YEN 47800 15 mm 340-915-136 25 mm YFN 63000 YEN 81000 YEN 119000 50 mm YEN 102000 Typical Analysis : Al 1, Au 10, Bi < 1, Ca 1, Cd < 1, Cr < 1, Cu 5, Fe 8, Mg < 1, Mn < 1, Na < 1, Pb 1, Pd 3, Si 2, Sn < 1. AG000265 Thickness 0.025mm Temper Annealed **NLT Sizes** 10pcs YEN 23600 YEN 32200 Web Code 866-814-250 692-771-915 186-939-840 Size **1pc** YEN 15400 **2pcs** YEN 16900 5pcs YEN 20200 **20pcs** YEN 28800 25 x 25 mm 50 x 50 mm 100 x 100 mm YEN 18100 YEN 23600 YEN 20800 YEN 28400 YEN 26200 YEN 38400 YEN 41000 YEN 49400 YEN 65500 002-341-115 250 x 300 mm YEN 42600 YEN 55000 YEN 81000 Sizes LT Quantity 1pc YEN 16200 YEN 19000 YEN 26000 **2pcs** YEN 17700 YEN 21800 YEN 31200 5pcs YEN 21200 YEN 27600 YEN 42200 10pcs YEN 24800 YEN 33800 YEN 54500 Size **20pcs** YEN 30400 25 x 25 mm 50 x 50 mm 100 x 100 mm 806-139-304 457-949-193 028-472-035 Width 250mm Quantity Coil Web Code 647-142-151 Length 1 Reel YEN 55000 YEN 71000 0.5 m 1 m 2 m 129-459-119 YEN 99000 Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.



Silver							
Ag							
	Foil						
AG000266	Thickness 0.025mm Temper Annealed		Purity.		99.95+%	6	
	NLT Sizes Web Code 690-721-169 240-322-817	Size 150 x 150 mm 300 x 300 mm	1pc YEN 29000 YEN 45400	Quantity 2pcs YEN 36200 YEN 59500	5pcs YEN 50500		
	Sizes LT Web Code 197-980-377 891-999-495	Size 150 x 150 mm 300 x 300 mm	1pc YEN 32000 YEN 54500	Quantity 2pcs YEN 39800 YEN 71000	5pcs YEN 55500		
	Coil Web Code 959-670-068 279-072-306	Width 300mm Length 0.5 m 1 m	1 Reel YEN 59000 YEN 76500	Quantity			
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	'n 5.					
AG000268	Thickness 0.030mm Temper Annealed		Purity.		99.95+%	6	
	NLT Sizes Web Code 898-368-574	Size 260 x 300 mm	1pc YEN 46000	Quan 2pcs YEN 60000	tity 5pcs	10pcs	
	Sizes LT Web Code 735-443-620 161-690-586	Size 50 x 50 mm 100 x 100 mm	1pc YEN 18700 YEN 24600	Quan 2pcs YEN 21400 YEN 30000	5pcs YEN 27400 YEN 40800	10pcs YEN 33800	
	399-654-952 Coil Web Code 119-574-183	260 x 300 mm Width 260mm Length 0.2 m	YEN 53000 1 Reel YEN 43800	YEN 69000 Quantity			
	321-021-434 888-538-443	0.5 m 1 m	YEN 59500 YEN 77500				
AG000280	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Z Thickness	in 5.	Purity.		99.95+%	6	
	Temper As rolled Size				Quantity		
	Web Code 799-413-360 926-668-417 833-551-725 193-973-026	25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm	1pc YEN 16000 YEN 19000 YEN 25000 YEN 31200	2pcs YEN 17500 YEN 21800 YEN 30400 YEN 39000	5pcs YEN 21000 YEN 27800 YEN 41400 YEN 55000	10pcs YEN 25200 YEN 35000 YEN 54000 YEN 73500	20pcs YEN 32400 YEN 46000
	Coil Web Code 246-630-123 828-770-354 596-287-526	Width 150mm Length 0.5 m 1 m 2 m	1 Reel YEN 50000 YEN 64000 YEN 83500	Quantity			
	Discs Web Code 535-942-199 992-766-659 095-827-457 978-431-139 303-888-550 986-065-377 258-173-627	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm 50 mm	10 discs YEN 27800 YEN 28800 YEN 29800 YEN 30600 YEN 37600 YEN 37600 YEN 49200	Quantity 20 discs YEN 32200 YEN 33600 YEN 35000 YEN 36200 YEN 39600 YEN 46000 YEN 62500	50 discs YEN 44800 YEN 46800 YEN 49000 YEN 51000 YEN 56000 YEN 66500 YEN 93000		
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Z		1214 10200	1214 02000	12.1 00000		
AG000281	Thickness 0.035mm Temper As rolled		Purity.		99.95+%	6	
	Size Web Code 516-981-227	Size 300 x 300 mm	1pc YEN 49400	Quantity 2pcs YEN 65000	5pcs YEN 112000		
	Coil Web Code 517-462-502 636-312-125	Width 300mm Length 0.5 m 1 m	1 Reel YEN 64000 YEN 83500	Quantity			
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	'n 5.					



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Silver							
Ag							
	Foil						
AG000300	Thickness 0.05mm Temper As rolled		Purity.		99.95+%	%	
	Size Web Code 271-709-174 963-646-487 455-802-041 975-253-562 906-698-199	\$ize 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm 150 x 300 mm	1pc YEN 15900 YEN 19000 YEN 25000 YEN 31200 YEN 38800	2pcs YEN 17400 YEN 21800 YEN 30400 YEN 39000 YEN 49800	9 Spcs YEN 20600 YEN 27400 YEN 41200 YEN 55000 YEN 77500	10pcs YEN 24800 YEN 34400 YEN 53500 YEN 78500	20pcs YEN 31000 YEN 44600 YEN 74000
	Coil Web Code 337-264-835 158-106-908 763-363-086	Width 150mm Length 0.5 m 1 m 2 m	1 Reel YEN 50500 YEN 64000 YEN 102000	Quantity			
	Discs Web Code 420-378-938 547-374-000 421-758-076 719-750-655 968-834-530 104-315-377 039-423-456	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm 50 mm	10 discs YEN 25200 YEN 26000 YEN 26800 YEN 27600 YEN 29600 YEN 33400 YEN 43200	Quantity 20 discs YEN 28200 YEN 29200 YEN 30400 YEN 31400 YEN 34200 YEN 39800 YEN 53500	50 discs YEN 35800 YEN 37400 YEN 39200 YEN 41000 YEN 54000 YEN 54000 YEN 76000		
A C 0 0 0 2 0 5	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z Thickness	'n 5.	Durity		99.95+%	<i>I</i> .	
AG000305	Temper Annealed		Pully.			70	
	Size Web Code 744-471-293 712-441-871 969-722-169 670-387-234	\$ize 50 x 50 mm 100 x 100 mm 150 x 150 mm 300 x 300 mm	1pc YEN 19000 YEN 25000 YEN 31200 YEN 49400	Quant 2pcs YEN 21800 YEN 30400 YEN 39000 YEN 65000	5pcs YEN 27400 YEN 41200 YEN 55000	10pcs YEN 34400 YEN 53500	
	Coil Web Code 103-069-874 803-392-056	Width 300mm Length 0.5 m 1 m	1 Reel YEN 64000 YEN 102000	Quantity			
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	n 5.					
AG000341	Thickness 0.075mm Purity 99.95+%				0.40mm Anneale	d	
	Coil Web Code 606-919-894 717-448-560 942-641-950 464-660-176 937-253-213	Width 0.40mm Length 0.2 m 0.5 m 1 m 2 m 5 m	1 Reel YEN 16700 YEN 18200 YEN 20000 YEN 23000 YEN 30800	Quantity			
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	in 5.					
AG000340	Thickness 0.075mm Temper As rolled		Purity.		99.95+9	<u></u>	
	Size Web Code 927-932-681 991-578-549 947-322-413 415-311-720 013-070-424	Size 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm	1pc YEN 16000 YEN 19100 YEN 25400 YEN 31600	2pcs YEN 17500 YEN 22000 YEN 30800 YEN 39600	Quantity 5pcs YEN 20800 YEN 27800 YEN 41800 YEN 84000	10pcs YEN 25000 YEN 34800 YEN 54500 YEN 82000	20pcs YEN 31400 YEN 45400 YEN 77000
	913-970-434 Coil Web Code 407-797-261 974-660-913 832-624-495	150 x 300 mm Width 150mm	YEN 39400 1 Reel YEN 51000 YEN 65500 YEN 106000	YEN 50500 Quantity	YEN 81000		
	Discs Web Code 246-310-066 788-760-620 595-085-912 385-738-487 217-305-754 163-219-131 402-399-292	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm	10 discs YEN 25400 YEN 26000 YEN 26800 YEN 27600 YEN 29600 YEN 33600 YEN 43800	Quantity 20 discs YEN 28200 YEN 29400 YEN 30400 YEN 31600 YEN 34400 YEN 40000 YEN 54500	50 discs YEN 35800 YEN 37600 YEN 39400 YEN 41200 YEN 45600 YEN 54500 YEN 77500		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	'n 5.					



Ag							
	Foil						
G000349	Thickness			dth			
	Coil Web Code	Width 101.6mm Length	1 Reel	Quantity			
	256-415-145 014-908-354	0.1 m 0.2 m	YEN 34800 YEN 42000				
	939-737-420 741-704-810	0.5 m 1 m	YEN 56000 YEN 72000				
			121172000				
G000350	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, 2 Thickness 0.1mm	211 5.	Purity.		99.95+%	/ 6	
	Temper As rolled Size		,		Quantity		
	Web Code	Size	1pc	2pcs	5pcs	10pcs	20pcs
	299-906-616 488-336-802	25 x 25 mm 50 x 50 mm	YEN 18200 YEN 22800	YEN 20400 YEN 26600	YEN 24800 YEN 34800	YEN 30200 YEN 44400	YEN 38600 YEN 58500
	042-107-826 805-208-471	100 x 100 mm 150 x 150 mm	YEN 31800 YEN 40800	YEN 39400 YEN 52000	YEN 55000 YEN 77000	YEN 73000	
	Coil Web Code	Width 150mm Length	1 Reel	Quantity			
	757-115-280	0.5 m	YEN 67000				
	639-409-237	1 M	YEN 101000	• "			
	Discs Web Code	Diameter	10 discs	Quantity 20 discs	50 discs		
	934-617-004 827-131-245	4 mm 6 mm	YEN 27000 YEN 28000	YEN 30400 YEN 32000	YEN 38600 YEN 41000		
	391-411-438 926-437-012	8 mm 10 mm	YEN 29200 YEN 30400	YEN 33600 YEN 35200	YEN 43600 YEN 46200		
	804-628-648 578-579-239	15 mm 25 mm	YEN 33200 YEN 38800	YEN 39200 YEN 47400	YEN 52500 YEN 65500		
	322-404-728	50 mm	YEN 53000	YEN 67500			
G000351	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, 2 Thickness 0.1mm	∠n 5.	Purity		99.95+9	/o	
-0000001	Temper Annealed Size		. unty.		Quantity	-	
	Web Code 230-067-974	Size 25 x 25 mm	1pc YEN 18200	2pcs YEN 20400	5pcs YEN 24800	10pcs YEN 30200	20pcs YEN 38600
	224-325-535	50 x 50 mm 100 x 100 mm	YEN 22800 YEN 31800	YEN 26600 YEN 39400	YEN 34800 YEN 55000	YEN 44400 YEN 73000	YEN 58500
	425-817-181 491-107-027 084-572-285	150 x 150 mm 300 x 300 mm	YEN 40800	YEN 52000 YEN 113000	YEN 77000	YEN 73000	
	Coil	Width 300mm	. 2.4 07 500	Quantity			
	Web Code	Length	1 Reel	Quantity			
	236-323-329	U.5 M	YEN 101000				
	Discs Web Code	Diameter	10 discs	Quan	50 discs	100 discs	
	628-063-058 754-762-451	4 mm 6 mm	YEN 27000 YEN 28000	YEN 30400 YEN 32000	YEN 38600 YEN 41000	YEN 51000 YEN 54500	
	294-346-083 514-111-031	8 mm 10 mm	YEN 29200 YEN 30400	YEN 33600 YEN 35200	YEN 43600 YEN 46200	YEN 58500 YEN 62000	
	968-364-391 142-002-434	15 mm 25 mm	YEN 33200 YEN 38800	YEN 39200 YEN 47400	YEN 52500 YEN 65500	YEN 71000 YEN 89500	
	630-070-732	50 mm	YEN 53000	YEN 67500			
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, 2	7n 5					



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Silver							
Ag							
	Foil						
AG000400	Thickness 0.125mm Temper As rolled Size		Purity.		99.95+% Quantity	%	
	Web Code 591-427-080 928-377-171 047-145-015 893-125-424 640-678-456	Size 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm 150 x 300 mm	1pc YEN 15500 YEN 18100 YEN 23400 YEN 28600 YEN 35200	2pcs YEN 16800 YEN 20400 YEN 28000 YEN 35400 YEN 54000	5pcs YEN 19600 YEN 25400 YEN 37200 YEN 64500	10pcs YEN 23000 YEN 31400 YEN 60000	20pcs YEN 28600 YEN 40400
	Coil Web Code 718-137-852 799-075-741	Width 150mm Length 0.5 m 1 m	1 Reel YEN 51000 YEN 85000	Quantity			
	Discs Web Code 084-806-068 600-759-304 094-914-416 864-303-159 037-891-087 736-378-266 047-278-081	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm	10 discs YEN 24800 YEN 25400 YEN 26000 YEN 26800 YEN 28400 YEN 31800 YEN 40200	Quantity 20 discs YEN 27400 YEN 28400 YEN 29400 YEN 30200 YEN 32600 YEN 37400 YEN 49400	50 discs YEN 34800 YEN 36400 YEN 37800 YEN 39400 YEN 43200 YEN 50500		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, 2	In 5.					
AG000401	Thickness 0.125mm Temper Annealed		Purity.		99.95+9	%	
	Size Web Code 168-161-815 279-256-347 638-072-956 067-851-638 678-312-853	Size 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm 150 x 300 mm	1pc YEN 15500 YEN 18100 YEN 23400 YEN 28600 YEN 35200	2pcs YEN 16800 YEN 20400 YEN 28000 YEN 35400 YEN 54000	Spcs YEN 19600 YEN 25400 YEN 37200 YEN 64500	10pcs YEN 23000 YEN 31400 YEN 60000	20pcs YEN 28600 YEN 40400
	Coil Web Code 838-989-056 405-567-189	Width 150mm Length 0.5 m 1 m	1 Reel YEN 51000 YEN 85000	Quantity			
	Discs Web Code 735-481-648 145-252-099 479-116-531 951-098-798 401-444-418 535-184-170 427-018-577	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm	10 discs YEN 24800 YEN 25400 YEN 26800 YEN 26800 YEN 28400 YEN 31800 YEN 40200	Quantity 20 discs YEN 27400 YEN 28400 YEN 29400 YEN 30200 YEN 32600 YEN 37400 YEN 49400	50 discs YEN 34800 YEN 36400 YEN 37800 YEN 39400 YEN 43200 YEN 50500		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Z	In 5.					
AG000360	Thickness 0.125mm Temper As rolled		High P	urity		%	
	Size Web Code 300-587-929	Size 25 x 25 mm	1pc YEN 22800	Quan 2pcs YEN 26000	5pcs YEN 32400	10pcs YEN 40200	
	573-496-939 687-123-521 890-446-789	50 x 50 mm 100 x 100 mm 150 x 150 mm	YEN 29800 YEN 43800 YEN 58000	YEN 35800 YEN 56000 YEN 75500	YEN 48200 YEN 79500	YEN 62500	
	Discs Web Code 305-849-324 231-174-532 896-820-030 102-510-098 813-760-386 720-037-877 004-731-494	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm 50 mm	10 discs YEN 30200 YEN 32000 YEN 338000 YEN 35600 YEN 40000 YEN 49000 YEN 71500	Quantity 20 discs YEN 34200 YEN 36800 YEN 39200 YEN 41800 YEN 48000 YEN 60500	50 discs YEN 43400 YEN 47400 YEN 51500 YEN 55500 YEN 65500		
	Typical Analysis : Al 1, Au 10, Bi <1, Ca 1,	Cd < 1, Cr < 1, Cu !	5, Fe 8, Mg < 1, I	Mn < 1, Na < 1,	Pb 1, Pd 3, Si 2,	Sn <1.	
AG000402	Thickness 0.125mm Purity 99.95+% Coil	Width 300mm	Tempe	dth		d	
	Web Code 641-039-038 271-907-622	Length 0.3 m 0.5 m	1 Reel YEN 57500 YEN 85000				
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, 2						



-			0					
Silver								
Ag								
	Foil							
AG000410	Thickness 0.15mm Temper As rolled Size		Purity			%		
	Web Code 909-755-160 719-390-109 923-773-457 471-677-135	Size 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm	1pc YEN 18100 YEN 23400 YEN 33800 YEN 44400	2pcs YEN 20600 YEN 28000 YEN 42800 YEN 57500	5pcs YEN 25600 YEN 37200 YEN 60500 YEN 98000	10pcs YEN 31600 YEN 48200 YEN 90000	20pcs YEN 41000 YEN 64500	
	Coil Web Code 078-056-952	Width 150mm Length 0.5 m	1 Reel YEN 74500	Quantity				
	Discs Web Code 959-640-924 955-123-059 390-384-075 798-003-962 750-492-079 811-500-832 437-601-236	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm	10 discs YEN 26400 YEN 27800 YEN 29000 YEN 30400 YEN 33800 YEN 40400 YEN 57000	Quantity 20 discs YEN 30000 YEN 32000 YEN 33800 YEN 35600 YEN 40400 YEN 49800 YEN 73500	50 discs YEN 38600 YEN 41400 YEN 44400 YEN 47400 YEN 55000 YEN 70000			
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, 2	'n 5.						
AG000420	Thickness 0.20mm Temper As rolled		Purity.		99.95+9	%		
	Size Web Code 744-458-138 744-322-137 855-200-557 920-981-877	Size 25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm	1pc YEN 15100 YEN 19100 YEN 27400 YEN 35400	Quant 2pcs YEN 16900 YEN 22800 YEN 34200 YEN 50500	5pcs YEN 20800 YEN 30000 YEN 55500	10pcs YEN 25600 YEN 38400		
	Discs Web Code 246-004-067 309-986-610 798-261-927 277-679-753 347-741-391 684-035-737 116-601-947	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm	10 discs YEN 23400 YEN 24400 YEN 25400 YEN 26400 YEN 29000 YEN 34200 YEN 47400	Quantity 20 discs YEN 26600 YEN 28000 YEN 29400 YEN 31000 YEN 34600 YEN 42000	50 discs YEN 35600 YEN 37800 YEN 40200 YEN 42600 YEN 48400			
AG000450	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. Thickness							
	Size Web Code	Size	1pc	Quan 2pcs	5pcs	10pcs		
	700-159-463 519-933-221 991-660-120 957-514-896	25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm	YEN 15500 YEN 20200 YEN 29200 YEN 38400	YEN 17600 YEN 24000 YEN 37000 YEN 60500	YEN 22000 YEN 32200 YEN 66500	YEN 27000 YEN 41400		
	Discs Web Code 689-360-807 170-111-784 263-969-383 996-173-727 521-717-479 214-685-739 835-721-514	Diameter 4 mm 6 mm 8 mm 10 mm 15 mm 25 mm 50 mm	10 discs YEN 23600 YEN 24800 YEN 26000 YEN 27000 YEN 30000 YEN 35800 YEN 50500	Quantity 20 discs YEN 26800 YEN 28600 YEN 30200 YEN 31800 YEN 36000 YEN 44200	50 discs YEN 36200 YEN 38800 YEN 41400 YEN 44000 YEN 50500			
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.							



Silver							
Ag							
	Foil						
AG000460	Thickness 0.25mm Temper As rolled	High Purity					
	Size Web Code	Size	1pc	2pcs	Quantity 5pcs	10pcs	20pcs
	465-189-035 148-630-463 578-810-212 351-283-139	25 x 25 mm 50 x 50 mm 100 x 100 mm 150 x 150 mm	YEN 26000 YEN 36200 YEN 56500 YEN 77000	YEN 30400 YEN 44800 YEN 73500	YEN 39600 YEN 62500 YEN 119000	YEN 50000 YEN 82500	YEN 66000
	Discs			Quantity			
	Web Code 910-393-837	Diameter 4 mm	10 discs YEN 31800	20 discs YEN 36400	50 discs YEN 47000		
	799-230-551 903-824-955	6 mm 8 mm	YEN 34400 YEN 37000	YEN 40200 YEN 43800	YEN 53000 YEN 58500		
	978-117-145 264-638-871	10 mm 15 mm	YEN 39600 YEN 46000	YEN 47400 YEN 56500	YEN 64500 YEN 79000		
	079-858-634 982-331-399	25 mm 50 mm	YEN 59000 YEN 91500	YEN 75000 YEN 132000	YEN 108000		
	Typical Analysis : Al 1, Au 10, Bi <1, Ca 1,	Cd <1, Cr <1, Cu 5	5, Fe 8, Mg < 1,	Mn <1, Na <1,	Pb 1, Pd 3, Si 2,	Sn <1.	
AG000451	Thickness 0.25mm Temper As rolled		Condit		99.95+% Flattene		
	Size Web Code	Size	Quantity 1pc				
	053-210-237 974-303-394	250 x 300 mm 300 x 500 mm	PÓA POA				
	600-834-348	300 x 1000 mm	POA				
AG000462	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Thickness	Zn 5.	Purity		99.95+%	<u>.</u>	
AG000402	Temper As rolled		r unity.	Quantity		u	
	Web Code	Size	1pc	2pcs	5pcs		
	507-430-987 914-087-326 762-874-934	50 x 50 mm 100 x 100 mm 150 x 150 mm	YEN 21000 YEN 31000 YEN 41000	YEN 25200 YEN 39400	YEN 34000		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1,	Zn 5.					
AG000466	Thickness 0.5mm Temper As rolled		Purity.		99.95+%	0	
	Discs			Quan	•		
	Web Code 548-214-823	Diameter 19 mm	1 discs YEN 16000	2 discs YEN 17600	5 discs YEN 21200	10 discs YEN 25800	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1,	Zn 5.					
AG000465	Thickness 0.5mm Temper As rolled		Purity.		99.95+%	0	
	Size Web Code	Size	1pc	Quantity 2pcs	5pcs		
	791-424-639 928-082-106	25 x 25 mm 50 x 50 mm	YEN 14500 YEN 19200	YEN 17000 YEN 23600	YEN 22800 YEN 41600		
	010-264-694 283-079-216	100 x 100 mm 150 x 150 mm	YEN 33400 YEN 62500	YEN 57500			
	Discs			Quantity			
	Web Code 384-904-190	Diameter 4 mm	10 discs YEN 28600	20 discs YEN 37200	50 discs YEN 47200		
	113-012-531 126-567-300	6 mm 8 mm	YEN 30000 YEN 31600	YEN 39400 YEN 41600	YEN 50500 YEN 54000		
	820-918-537 614-822-695	10 mm 15 mm	YEN 33000 YEN 36800	YEN 43800 YEN 49000	YEN 58000 YEN 74500		
	852-834-007	25 mm	YEN 44200	1 EN 49000	TEN 74500		
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.						



Silver Αg Foil Thickness 0.5mm AG000470 High Purity 99.99 + % Temper As rolled Size Quantity Web Code 531-309-788 413-722-432 Size **2pcs** YEN 20600 **5pcs** YEN 27800 **1pc** YEN 17400 25 x 25 mm YEN 27800 YEN 70000 50 x 50 mm 100 x 100 mm YEN 22600 YEN 40600 YEN 52000 413-527-916 150 x 150 mm YFN 76000 **Discs** Quantity **Web Code** 690-989-562 373-691-320 **10 discs** YEN 32600 YEN 34200 20 discs YEN 38800 YEN 41200 **50 discs** YEN 56500 YEN 60500 Diameter 4 mm 6 mm YEN 35800 YEN 37600 YEN 43600 YEN 46000 YEN 64500 YEN 68500 711-424-322 928-048-123 8 mm 10 mm 006-017-828 15 mm YEN 52000 YEN 90000 752-225-476 25 mm YFN 51500 Typical Analysis: Al 1, Au 10, Bi < 1, Ca 1, Cd < 1, Cr < 1, Cu 5, Fe 8, Mg < 1, Mn < 1, Na < 1, Pb 1, Pd 3, Si 2, Sn < 1. Thickness 0.5mm AG000467 Temper As rolled Size Quantity Web Code 1pc YEN 20200 YEN 39200 YEN 68500 **2pcs** YEN 25200 YEN 69500 Size 50 x 50 mm 100 x 100 mm 100 x 200 mm 069-278-803 888-683-904 YEN 49200 015-577-273 **Discs** Quantity 20 discs YEN 37800 YEN 40200 YEN 42600 10 discs YEN 29000 YEN 30600 50 discs YEN 48000 YEN 52000 YEN 56000 Web Code Diameter 811-092-018 583-840-202 489-037-670 4 mm 6 mm 8 mm YEN 32200 556-277-134 943-855-488 10 mm YEN 34000 YEN 38200 YEN 45000 YEN 60000 YEN 51000 15 mm 120-638-443 Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5. Thickness 0.5mm AG000468 Temper As rolled Quantity Size **Web Code** 566-671-454 453-719-107 Size 200 x 200 mm 200 x 500 mm 200 x 1000 mm POA 445-665-999 Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5. AG000475 Thickness 1.0mm Temper As rolled Purity.......99.95+% Quantity 1pc YEN 16400 YEN 23000 YEN 57000 Web Code 522-321-168 **10pcs** YEN 44800 Size **2pcs** YEN 19800 **5pcs** YEN 27000 25 x 25 mm 290-145-234 268-155-416 50 x 50 mm 100 x 100 mm YEN 34000 POA POA 519-427-971 150 x 150 mm Quantity **Discs** Web Code 928-494-171 Diameter **10 discs** YEN 29800 **20 discs** YEN 39000 50 discs YEN 50000 4 mm 061-763-030 720-380-118 047-512-658 939-080-656 YEN 32000 YEN 34200 YEN 36400 YEN 41600 YEN 42000 YEN 45200 YEN 48400 6 mm YEN 55000 YEN 60500 8 mm 10 mm YEN 71500 YEN 108000 YEN 60000 15 mm 385-075-421 25 mm YEN 62500 Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.



Silver Ag Foil Thickness 1.0mm AG000480 High Purity 99.99 + % Temper As rolled Quantity Size **Web Code** 803-188-199 398-513-657 **2pcs** YEN 23600 YEN 41600 **5pcs** YEN 34000 **10pcs** YEN 54000 Size **1pc** YEN 19500 25 x 25 mm YEN 26800 YEN 69000 50 x 50 mm 100 x 100 mm YEN 87000 YEN 126000 YFN 140000 775-425-448 150 x 150 mm Quantity 20 discs YEN 40800 YEN 44200 YEN 47800 YEN 51500 **Web Code** 928-182-660 022-826-336 **10 discs** YEN 34000 YEN 36200 **50 discs** YEN 59500 YEN 65000 Diameter 4 mm 6 mm YEN 38600 YEN 41200 YEN 73000 YEN 86500 853-288-937 661-113-318 8 mm 10 mm 15 mm YEN 67000 YEN 130000 895-352-790 25 mm YFN 73500 Typical Analysis: Al 1, Au 10, Bi < 1, Ca 1, Cd < 1, Cr < 1, Cu 5, Fe 8, Mg < 1, Mn < 1, Na < 1, Pb 1, Pd 3, Si 2, Sn < 1. Thickness 2.0mm AG000501 Temper As rolled Quantity Size Web Code Size **2pcs** YEN 28200 1pc YEN 21200 25 x 25 mm 50 x 50 mm 749-854-965 133-620-491 YEN 45200 Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5. AG000500 Thickness 2.0mm Purity......99.95+% Temper As rolled Size Quantity Web Code 886-463-838 Size 25 x 25 mm **2pcs** YEN 23600 **10pcs** YEN 74000 **5pcs** YEN 41600 1pc YEN 19200 50 x 50 mm 100 x 100 mm 150 x 150 mm 807-986-754 YEN 33400 YEN 57500 998-344-859 POA 793-112-360 Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5. AG000530 Thickness 3mm Temper As rolled Purity.......99.95+% Size Quantity Web Code 168-604-721 075-588-921 Size 2pcs POA 50 x 50 mm 100 x 100 mm POA Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5. AG000550 Thickness 6mm Purity.......99.95+% Temper As rolled Size Quantity Web Code Size **1pc** YEN 80500 2pcs POA 50 x 50 mm 239-060-997 100 x 100 mm POA Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5. Sputtering Target AG009300 Thickness 3.0mm Purity......99.99% Quantity Size Web Code Disc diam. 1disc 573-225-486 864-826-379 POA POA POA 25 mm 50 mm 547-787-190 75 mm Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10. These targets are normally available for immediate shipment from stock. Other sizes are available to special order. AG009500 Thickness 5.0mm Purity..... 99.99% Size Quantity Web Code 174-891-771 Disc diam. 31 mm 1disc POA Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.



Silver

Αg



Sputtering Target

AG009600 Thickness 6.0mm Purity..... 99.99%

Size Quantity Web Code 655-741-648 103-292-296 Disc diam. 1disc 25 mm 50 mm POA POA 940-851-290 75 mm POA

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

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



Mesh

AG008710

Nominal Aperture..... 0.25mm Wire diameter..... 0.06mm Open area 65% Type Plain weave mesh

Size Quantity **2pcs 5pcs** YEN 31600 YEN 44200 Web Code Size 1pc YEN 25200 YEN 35800 853-678-745 526-449-555 20 x 20 mm 40 x 40 mm 960-337-198 80 x 80 mm YEN 92000



Wire

AG005102 Diameter..... 0.0125mm Purity..... 99.99%

> Length Quantity Web Code 481-295-095 Length 1 Reel 1 m YEN 61000 576-820-421 5 m YEN 118000

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

Diameter..... 0.015mm AG005104

Temper Hard

Purity......99.99%

Length Web Code 630-723-128 812-683-428 Quantity Length 1 Reel 1 m 5 m YEN 94000

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

AG005106 Diameter..... 0.015mm Purity......99.99%

Temper Annealed

Length Web Code Quantity 1 Reel YEN 50500 Length 1 m 5 m

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

AG005105 Diameter..... 0.025mm Purity...... 99.99%

Temper As drawn

Quantity Length Web Code 400-124-346 1 Reel YEN 24400 1 m 894-058-488 2 m YEN 28200 YEN 35400 015-547-801 943-483-788 5 m 10 m 757-309-898 YEN 55500

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

AG005107 Diameter..... 0.025mm Purity..... 99.99% Temper Annealed

Length Web Code 768-706-486 736-160-368 Quantity 1 Reel YEN 24400 YEN 28200 Length 1 m 2 m 399-621-444 735-434-408 386-940-005 YEN 35400 YEN 43800 5 m YEN 55500 20 m

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



Silver					
Ag					
	Wire				
AG005220	Diameter	e	Purity	99.99%	
	Length		Quantity		
	Web Code 514-124-632	Length 0.5 m	1 Reel YEN 26400		
	265-586-244 198-278-164	1 m 2 m	YEN 33400 YEN 43800		
	784-770-696	5 m	YEN 62000		
A C00E440	Typical Analysis: Al 5, Au 5, Bi 2, Cd 3, Cu 35, Fe Diameter	10, Mn 2, Ni		2, Zn 10. 99.99%	
AG005110	Temper Annealed			99.9976	
	Length Web Code	Length	Quantity 1 Reel		
	957-599-601 699-955-698	10 m 50 m	YEN 13800 YEN 17500		
	494-452-202	100 m	YEN 20600		
	806-537-211 817-161-717	500 m 1000 m	YEN 37400 YEN 59000		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Ph	o 10.			
AG005113	Diameter 0.075mm Temper As drawn		Purity	99.99%	
	Length		Quantity		
	Web Code 479-762-946	Length 5 m	1 Reel YEN 13000		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pl	2 10			
AG005116	Diameter0.1mm		Purity	99.99%	
	Temper As drawn Length		Quantity		
	Web Code 481-480-508	Length	1 Reel		
	326-497-782	5 m 10 m	YEN 13500 YEN 15200		
	122-665-353 109-457-739	20 m 100 m	YEN 16700 YEN 23600		
	046-724-257	500 m	YEN 57500		
AG005120	Typical Analysis: Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pl Diameter	J 10.	Purity		
	Temper Annealed		Overetites		
	Length Web Code	Length	Quantity 1 Reel		
	151-579-198 296-185-237	5 m 10 m	YEN 13300 YEN 15000		
	023-152-475 423-805-466	20 m 100 m	YEN 16500 YEN 23400		
	975-678-029	500 m	YEN 57000		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Ph	o 10.			
AG005124	Diameter 0.15mm Temper As drawn		Purity		
	Length	Lammth	Quantity		
	Web Code 186-212-663	Length 5 m	1 Reel YEN 13700		
	962-029-208 276-528-993	10 m 20 m	YEN 15700 YEN 17500		
	066-883-234 644-713-387	100 m 250 m	YEN 25600 YEN 43200		
	Typical Analysis: Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pt	o 10.			
AG005127	Diameter		Purity	99.99%	
	Length		Quantity		
	Web Code 638-407-209	Length 5 m	1 Reel YEN 13400		
	Typical Analysis - Au 5 Bi 1 Cu 20 Ec 2 M-1 Di	n 10			
	Typical Analysis: Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pt	J IU.			



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Silver				
Ag				
	Wire			
AG005140	Diameter 0.25mm Temper As drawn			99.997%
	Length Web Code	Length	Quantity 1 Reel	
	921-766-017 220-756-578	0.5 m 1 m	YEN 19100	
	594-563-020 926-153-406	5 m 10 m	YEN 33200	
	320-381-962	25 m	YEN 49800	
A 0005400	Typical Analysis : Ca <1, Cd <1, Cu <1, Fe 2	2, Mg < 1, Na < 1		00.00%
AG005130	Diameter 0.25mm Temper Annealed			99.99%
	Length Web Code	Length	Quantity 1 Reel	
	267-930-189 769-178-752	5 m	YEN 13400 YEN 18500	
	147-346-943 408-095-179	50 m		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1	I, Pb 10.		
AG005145	Diameter 0.35mm		Purity	99.99%
	Temper Annealed Length		Quantity	
	Web Code 683-764-154	Length 5 m	1 Reel	
	824-966-838 806-343-485	10 m 20 m		
	699-562-183	50 m		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1	I, Pb 10.		
AG005150	Diameter		Purity	99.99%
	Length		Quantity	
	Web Code 968-137-820	Length 1 m		
	978-373-859 017-233-069	5 m		
	548-406-522 651-924-636	10 m 20 m	YEN 26000 YEN 34800	
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1	I, Pb 10.		
AG005155	Diameter		Purity	99.99%
	Length Web Code	Longth	Quantity 1 Reel	
	778-702-015	Length 0.5 m	YEN 15000	
	684-352-316 296-735-914	1 m 2 m	YEN 21000	
	544-039-509 004-942-766	5 m 10 m		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1	I, Pb 10.		
AG005160	Diameter		Purity	99.99%
	Length		Quantity	
	Web Code 660-397-904	Length 0.2 m	1 Reel YEN 13600	
	638-652-448 831-560-817	1 m	YEN 16300 YEN 19400	
	945-108-740 138-597-256	5 m 10 m		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1	I, Pb 10.		
AG005170	Diameter		Purity	99.99%
	Length Web Code	Length	Quantity 1 Reel	
	067-692-009 093-089-768	0.1 m		
	182-612-668 106-632-196		YEN 22600	
	280-150-840	2 m		
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1	I, Pb 10.		



	44 1480 424 800 : Fax +44 148	0 .= . 00	
Silver			
Ag			
	Insulated Wire Insulating coatings of polyurethane, polyimid	e and Nylor	n are also available.
AG005816	Conductor diameter 0.025mm Purity 99.99% Length Web Code 700-181-291 362-058-607 006-658-610 982-650-667 580-856-464		Insulation thickness
AG005815	Typical Analysis : Please ask. Conductor diameter 0.025mm Purity 99.99% Length Web Code 245-395-644 674-453-878 306-736-610 342-083-886 760-486-230 Typical Analysis : Please ask.		Insulation thickness 0.005mm Insulation Polyester Quantity 1 Reel YEN 15900 YEN 18900 YEN 22200 YEN 32400 YEN 32400 YEN 63000
AG005820	Conductor diameter 9.04mm Purity 99.99% Condition Butyral bond of thick Length Web Code 142-079-812 280-245-454 945-134-514 207-450-190 103-866-156	Length 2 m 5 m 10 m 20 m	Insulation thickness 0.007mm Insulation Polyester 05 mm Quantity 1 Reel YEN 23400 YEN 35200 YEN 59500 YEN 109000 YEN 256000
AG005825	Typical Analysis : Please ask. Conductor diameter 0.05mm Purity 99.99% Length Web Code 060-784-274 598-026-663 753-335-176 166-893-478 861-682-780 Typical Analysis : Please ask.	Length 2 m 5 m 10 m 20 m 50 m	Insulation thickness 0.0075mm Insulation
AG005810	Conductor diameter	Length 1 m 2 m 5 m 10 m 20 m	Insulation thickness 0.010mm Insulation
AG005811	Conductor diameter	Length 1 m 2 m 5 m 10 m 20 m	Insulation thickness 0.010mm Insulation Nylon Quantity 1 Reel YEN 15800 YEN 18800 YEN 28200 YEN 28200 YEN 47400 YEN 84500
AG005842	Conductor diameter	Length 5 m 10 m 20 m 50 m	Insulation thickness 0.0125mm Insulation



Silver Αg **Insulated Wire** AG005840 Conductor diameter..... 0.125mm Insulation thickness 0.0125mm Purity......99.99% Insulation Polyester Quantity Length Web Code 710-348-690 793-580-023 Length 2 m 5 m 1 Reel YEN 15300 YEN 18000 YEN 21000 YEN 29000 197-509-905 688-747-556 20 m 093-445-271 Typical Analysis: Please ask. AG005845 Length Web Code 479-905-483 988-178-670 522-326-550 290-815-722 Quantity Length 2 m 5 m **1 Reel** YEN 17800 YEN 22000 YEN 28000 10 m 20 m YFN 45400 351-974-430 50 m YEN 98000 Typical Analysis: Please ask. Conductor diameter..... 0.25mm Purity............. 99.99% Insulation thickness 0.005mm Insulation Polyurethane AG005856 Length Quantity Web Code 553-638-552 753-149-323 983-848-222 1 Reel YEN 15800 YEN 17900 YEN 22400 Length 1 m 2 m 5 m 308-044-879 10 m YEN 30000 773-846-490 20 m YEN 49400 Typical Analysis : Please ask. Insulation thickness..... 0.015mm AG005860 Insulation Epoxy Length Web Code 187-116-931 389-619-737 Quantity 1 Reel YEN 17300 YEN 21000 YEN 27600 Length 2 m 702-472-680 10 m 809-075-325 YEN 43400 134-422-286 YEN 90500 50 m Typical Analysis: Please ask. AG005850 Insulation thickness 0.023mm Insulation Polyester Length Web Code Quantity Length 1 Reel YEN 17100 YEN 20600 YEN 24200 YEN 35000 996-805-637 600-708-565 2 m 5 m 088-566-581 10 m 070-816-359 20 m 50 m 852-048-630 YEN 70000 Typical Analysis : Please ask. Conductor diameter..... 0.25mm Purity........... 99.99% Insulation thickness..... 0.024mm AG005855 Insulation PTFE (Polytetrafluoroethylene) Length Web Code Quantity 1 Reel YEN 17900 YEN 22400 Length 506-081-669 260-204-931 2 m 5 m 525-624-933 703-115-960 YEN 30000 YEN 49400 10 m 20 m 889-496-938 50 m YEN 108000 Typical Analysis: Please ask.



Silver						
Ag						
	Rod					
AG007902	Diameter		Purity.		99.95+9	%
	Size Web Code	Length	1pc	Quan 2pcs	tity 5pcs	10pcs
	564-072-711 533-456-064	100 mm 200 mm	YEN 16200 YEN 17900	YEN 18700 YEN 21000	YEN 24600 YEN 28200	YEN 29200 YEN 34400
	000-493-514 138-134-114	500 mm 1000 mm	YEN 21200 YEN 24800	YEN 25800 YEN 31000	1214 20200	1214 04400
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007905	Diameter		Purity.		99.95+9	%
	Size			Quan	•	
	Web Code 934-961-021	Length 100 mm	1pc YEN 17400	2pcs YEN 20400	5pcs YEN 27200	10pcs YEN 33000
	870-136-052 767-004-718	200 mm 500 mm	YEN 19600 YEN 23800	YEN 23400 YEN 29600	YEN 32000 YEN 46000	YEN 40800
	875-594-533	1000 mm	YEN 28600	YEN 37400		
AG007910	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. Diameter		Purity		99.95+9	V ₀
AG001910	Temper As drawn		i unity.	Quan		.•
	Web Code 449-313-936	Length 100 mm	1pc YEN 17800	2pcs YEN 21600	5pcs YEN 30200	10pcs YEN 41400
	164-243-000 530-385-376	200 mm 500 mm	YEN 20800 YEN 26800	YEN 26000 YEN 34400	YEN 37000	YEN 62500
	298-163-981	1000 mm	YEN 33600	YEN 55500		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007911	Diameter 2.6mm Temper As drawn		Purity.		99.95+9	/ o
	Size Web Code	Length	1pc	Quantity 2pcs	5pcs	
	367-439-571 720-888-475	100 mm 200 mm	YEN 19100 YEN 22200	YEN 24000 YEN 28400	YEN 35800	
	926-814-664 825-675-690	500 mm 1000 mm	YEN 28400 YEN 42600	YEN 44400		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007912	Diameter 3.0mm Temper As drawn		High P	Purity	99.997%	
	Size Web Code	Length	1pc	Quantity 2pcs	5pcs	
	297-366-922 439-079-918	100 mm 200 mm	YEN 23200 YEN 28400	YEN 29400 YEN 38000	YEN 47400 YEN 81000	
	714-670-162 860-432-478	500 mm 1000 mm	YEN 44000 YEN 77500	YEN 78500		
	Typical Analysis : Ca <1, Cd <1, Cu <1, Fe 2, N	g <1, Na <1	I, Si 1.			
AG007915	Diameter		Purity.		99.95+9	%
	Size	1	4	Quantity	F	
	Web Code 955-748-867	Length 100 mm 200 mm	1pc YEN 20400 YEN 24600	2pcs YEN 25400 YEN 31400	5pcs YEN 36200	
	658-418-463 283-561-160 348-761-097	500 mm 1000 mm	YEN 32800 YEN 52000	YEN 52500	YEN 55000	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007920	Diameter 5.0mm Temper As drawn		Purity.		99.95+9	%
	Size			Quantity	_	
	Web Code 270-496-864	Length 100 mm	1pc YEN 28400	2pcs YEN 36600	5pcs YEN 63500	
	812-101-696 512-703-190 087-889-884	200 mm 500 mm 1000 mm	YEN 34200 YEN 57000 YEN 100000	YEN 50500 YEN 102000	YEN 10/000	
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
	,,,					



273-271-798	10pcs
AG007928 Diameter	10pcs
Temper	10pcs
Web Code Length 1pc 2pcs YEN 52500 YEN 32500 YEN 325	10pcs
Add-757-320 S0 mm	10pcs
AG007936 Diameter	104000
AG007936 Diameter	104000
Temper	104000
Size Web Code T13-T71-282 50 mm YEN 27600 YEN 35600 YEN 55505 YEN 55500 YEN 708-248-763 200 mm YEN 33200 YEN 78500 YEN 78500	104000
T13-771-282	104000
Tobs	
Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.	
AG007935 Diameter	
Temper	
Web Code 596-422-860 50 mm YEN 29400 YEN 38200 YEN 71000 YEN 3959-505-818 100 mm YEN 36000 YEN 56500 YEN 121000 YEN 36000 YEN 96500 YEN 121000 YEN 36000 YEN 96500 YEN 121000 YEN 36000 YEN 96500 YEN 36000 YEN 36000	
959-505-818 938-225-106 278-144-620 Typical Analysis : Au < 5, Bi 3, Cd 3, Cu 70, Fe 5, Na < 1, Pb < 2, Sn < 5. AG007938 Diameter	
Typical Analysis : Au < 5, Bi 3, Cd 3, Cu 70, Fe 5, Na < 1, Pb < 2, Sn < 5.	, 000
Diameter Size Web Code S39-346-927 S73-335-736 135-963-077 665-205-046 Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.	
Temper	
Web Code	
839-346-927 573-335-736 100 mm YEN 29600 YEN 38200 YEN 71500 YEN 5735-735-736 100 mm YEN 57000 YEN 57000 YEN 122000 YEN 57000	10pcs
135-963-077 665-205-046 Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. AG007940 Diameter	
AG007940 Diameter 10.0mm	
Temper	
Size Web Code 816-328-862 25 mm YEN 29600 YEN 38400 YEN 67000	
Web Code 816-328-862 263-411-638 010-688-470 336-052-872 Length 25 mm 50 mm 100 mm 200 mm 1pc YEN 38600 YEN 35600 YEN 52500 YEN 85000 2pcs YEN 67000 YEN 52500 YEN 87500 5pcs YEN 67000 YEN 87500 Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. AG007942 Diameter	
010-688-470	
Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. AG007942 Diameter	
AG007942 Diameter 12.7mm Purity 99.95+% Size Quantity	
Temper	
Web Code Length 1pc 2pcs 5pcs	10pcs
720-010-889 25 mm YEN 33400 YEN 45200 YEN 91500 537-766-591 50 mm YEN 42600 YEN 72500 POA	POA
144-316-547 100 mm YEN 70000 POA 593-036-399 200 mm POA	
Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.	
AG007945 Diameter	
Size Quantity Web Code Length 1pc 2pcs	
784-855-295 25 mm YEN 38200 YEN 62000 584-107-161 50 mm YEN 59000 YEN 106000	
461-061-205 100 mm YEN 103000	
Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.	



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Silver				
Ag				
	Rod			
AG007950	Diameter		Purity.	
	Size Web Code	Length	Quantity 1pc	
	825-852-001 231-507-195	25 mm 50 mm	PÖA POA	
	938-394-397	100 mm	POA	
AG007955	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. Diameter		Purity	99.95+%
A0007333	Temper As drawn Size		Quantity	
	Web Code 162-008-416	Length 25 mm	1pc POA	
	188-008-617 925-118-395	50 mm 100 mm	POA POA	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.			
AG007958	Diameter	_	Purity.	
	Size Web Code	Length	Quantity 1pc	
	712-679-027 736-076-215	25 mm 50 mm	PÓA POA	
	719-776-077	100 mm	POA	
AG007959	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. Diameter		Purity.	99.95+%
, , , , , , , , , , , , , , , , , , , ,	Temper As drawn Size		Quantity	
	Web Code 748-466-839	Length 12 mm	1pc POA	
	533-312-632 199-378-302	25 mm 50 mm	POA POA	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.			
AG007960	Diameter		Purity.	99.95+%
	Size Web Code	Length	Quantity 1pc	
	815-790-116 973-774-743 721-849-232	25 mm 50 mm 100 mm	POA POA POA	
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.	100 111111	1 0/1	
	Tube			
AG007050	Outside Diameter0.7mm			hickness0.2mm
	Inside Diameter 0.3mm Temper As drawn		Fullty.	Quantity
	Size Web Code 449-580-445	Length 100 mm	1pc YEN 25800	2pcs 5pcs YEN 31200 YEN 48800
	275-425-388 884-620-974	200 mm 500 mm	YEN 30400 YEN 46400	YEN 40800 YEN 80500 YEN 79000
	706-995-286	1000 mm	YEN 78000	
AG007100	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5. Outside Diameter1.1mm		Wall T	hickness0.175mm
7.0007 100	Inside Diameter 0.75mm Temper			99.95+%
	Size Web Code	Length	1pc	Quantity 2pcs 5pcs 10pcs 20pcs
	189-874-294 734-283-529 785-449-749	100 mm 200 mm 500 mm	YEN 25200 YEN 29600	YEN 30200 YEN 45600 YEN 75500 YEN 136000 YEN 38200 YEN 74000 YEN 132000 YEN 150000
	181-221-165	1000 mm	YEN 43000 YEN 71500	YEN 72000 YEN 159000 YEN 129000
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.			



Silver							
Ag							
	Tube						
AG007130	Outside Diameter			hickness			
	Size Web Code 946-630-194	Length 16.5 mm	5pcs YEN 30200	Quantity 10pcs YEN 41000	20pcs YEN 65000		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.						
AG007150	Outside Diameter 1.75mm Inside Diameter 1.55mm Temper			hickness		%	
	Size Web Code 652-638-223	Length 100 mm	1pc YEN 25000	Quantity 2pcs YEN 30000	5pcs YEN 44600		
	579-779-712 472-474-204 059-285-095	200 mm 500 mm 1000 mm	YEN 29400 YEN 42200 YEN 69500	YEN 37400 YEN 70500	YEN 72000		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.						
AG007200	Outside Diameter 2.0mm Inside Diameter 1.6mm Temper			hickness	99.95+	%	
	Size Web Code 410-629-790	Length 100 mm	1pc YEN 25400	2pcs YEN 30200	Quantity 5pcs YEN 44200	10pcs YEN 72500	20pcs YEN 130000
	328-712-584 089-067-990 133-490-660	200 mm 500 mm 1000 mm	YEN 29600 YEN 41800	YEN 37200 YEN 69000 YEN 122000	YEN 71000	YEN 126000	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.						
AG007220	Outside Diameter 2.8mm Inside Diameter 2.5mm Temper As drawn Size			hickness Quan	99.95+		
	Web Code 686-333-217 791-652-113 956-513-541 564-191-172	Length 100 mm 200 mm 500 mm 1000 mm	1pc YEN 24200 YEN 29400 YEN 39800 YEN 61500	2pcs YEN 30200 YEN 37600 YEN 62000 YEN 112000	5pcs YEN 42600 YEN 64500	10pcs YEN 68000	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.						
AG007230	Outside Diameter 3.5mm Inside Diameter 3.04mm Temper			hickness	99.95+9		
	Size Web Code 523-894-342 486-795-874 489-480-584 185-065-949	Length 100 mm 200 mm 500 mm 1000 mm	1pc YEN 21800 YEN 26000 YEN 34400 YEN 43800	Quan 2pcs YEN 26800 YEN 32800 YEN 44600 YEN 74000	5pcs YEN 37400 YEN 46800	10pcs YEN 50500	
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.	1000 111111	1214 10000	1217 1000			
AG007250	Outside Diameter 4.65mm Inside Diameter 4.15mm Temper As drawn			hickness			
	Size Web Code	Length	1pc	Quan 2pcs	5pcs	10pcs	
	379-491-705 436-470-048 558-762-369 845-295-584	100 mm 200 mm 500 mm 1000 mm	YEN 22800 YEN 27400 YEN 36200 YEN 46200	YEN 28200 YEN 34400 YEN 47000 YEN 76000	YEN 39600 YEN 49400 YEN 94500	YEN 53500 YEN 82500	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.						
AG007251	Outside Diameter 4.65mm Inside Diameter 4.23mm Temper As drawn			hickness	99.95+		
	Size Web Code	Length	1pc	Quan 2pcs	5pcs	10pcs	
	524-466-966 051-732-974 866-454-142 755-813-106	100 mm 200 mm 500 mm 1000 mm	YEN 22800 YEN 27400 YEN 36200 YEN 46200	YEN 28200 YEN 34400 YEN 47000 YEN 76000	YEN 39600 YEN 49400 YEN 94500	YEN 53500 YEN 82500	
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.						



'	44 1480 424 800 : Fax +44 148	30 424 90	U			0001
Silver						
Ag						
	Tube					
AG007260	Outside Diameter			hickness		
	Size Web Code	Length	1pc	Quant 2pcs	tity 5pcs	10pcs
	133-245-314 655-666-608	100 mm 200 mm	YEN 22800 YEN 27400	YEN 28200 YEN 34400	YEN 39400 YEN 49400	YEN 53500 YEN 82500
	958-328-831 791-106-045	500 mm 1000 mm	YEN 36200 YEN 46200	YEN 47000 YEN 76000	YEN 94000	
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007300	Outside Diameter 6.0mm			hickness		
	Inside Diameter 4mm Temper As drawn		Purity.		99.95+%	/ 6
	Size Web Code	Length	1pc	Quantity 2pcs	5pcs	
	888-251-357 031-414-701	100 mm 200 mm	YEN 28800 YEN 34200	YEN 36600 YEN 44200	YEN 57000 YEN 89500	
	926-842-903 855-367-044	500 mm 1000 mm	YEN 48200 YEN 80500	YEN 83000		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007325	Outside Diameter 7.0mm			hickness		/
	Inside Diameter 6mm Temper As drawn		Purity.		99.95 + %	/ 0
	Size Web Code	Length	1pc	Quantity 2pcs	5pcs	
	347-980-345 511-661-995	100 mm 200 mm	YEN 28800 YEN 34200	YEN 36600 YEN 44200	YEN 57000 YEN 89500	
	990-922-569	500 mm	YEN 48200	YEN 83000		
4.0007007	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.		· · · · · · ·	Liston .	4.5	
AG007335	Outside Diameter 8.0mm Inside Diameter 5.0mm Temper As drawn			hickness		/o
	Size			Quantity		
	Web Code 216-953-390	Length 50 mm	1pc YEN 26200	2pcs YEN 34000	5pcs YEN 51500	
	022-971-894 515-384-847	100 mm 200 mm	YEN 30400 YEN 40800	YEN 44200 YEN 69000	YEN 82500	
	678-677-678	500 mm	YEN 78000			
A C 0 0 7 4 0 0	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.		\A/all T	hickness	1 m	
AG007400	Outside Diameter 8.0x5.0mm Inside Diameter 6x3mm Condition Rectangular se	ction		nickness		⁄6
	Size			Quantity	_	
	Web Code 920-885-240	Length 100 mm	1pc YEN 37400	2pcs YEN 49000	5pcs YEN 98000	
	110-651-826 831-479-687	200 mm 500 mm	YEN 46800 YEN 89000	YEN 76500		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007350	Outside Diameter 10mm			hickness		<i>/</i> _
	Inside Diameter 8mm Temper As drawn		Purity.			70
	Size Web Code	Length	1pc	Quantity 2pcs	5pcs	
	802-581-593 779-258-199	50 mm 100 mm	YEN 26000 YEN 30200	YEN 33600 YEN 43200	YEN 50000 YEN 80000	
	407-269-757 908-723-329	200 mm 500 mm	YEN 39800 YEN 75500	YEN 67000		
	Typical Analysis : Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					
AG007380	Outside Diameter 12.7mm			hickness		<i>/</i> _
	Inside Diameter		Punty.	Over metites	33.3 3 + 7	/U
	Size Web Code	Length	1pc	Quantity 2pcs	5pcs	
	706-318-948 281-292-715	50 mm 100 mm	YEN 25200 YEN 29000	YEN 32400 YEN 39400	YEN 45400 YEN 70500	
	398-829-765 686-234-211	200 mm 500 mm	YEN 35800 YEN 66000	YEN 59500		
	Typical Analysis: Cu 70, Fe 5, Na 1, Pb 1, Zn 5.					



Telephone +	-44 1480 424 800 : Fax +44 1480 424 900
Silver	
Ag	
	Powder
AG006030	Max. Particle size 2micron Purity
F Xi	Web Code Weight 1 Pot 381-105-085 10 g YEN 26400 638-127-416 25 g YEN 41000 765-936-178 50 g YEN 66000 742-020-503 100 g YEN 117000
	Typical Analysis: CI < 20, Cu 180, Fe < 20, K < 1, Na 30, Pb < 20. Hazardous goods, additional shipment charges apply which are dependent on destination. Please check the individual item on our websit or contact us for further details.
AG006023	Max. Particle size
F Xi	Web Code Weight 1 Pot 191-970-079 10 g YEN 17000 227-518-830 20 g YEN 22000 659-708-162 50 g YEN 32600 075-038-257 100 g YEN 49800
	Typical Analysis: Cu < 25, Fe < 10, Ni < 5, Pb < 10, Cl < 5, sulphate < 10, water < 4000. May be suitable for additive manufacturing research and development purposes. Hazardous goods, additional shipment charges apply which are dependent on destination. Please check the individual item on our websit or contact us for further details.
	Lump
AG006100	Max. Lump size
	Web Code Weight 1 Pot 948-528-732 10 g YEN 36600 566-096-572 20 g YEN 54500 762-074-405 50 g YEN 112000
	Typical Analysis : Fe 1, Mg < 1, Na < 1.
AG006105	Max. Lump size 6mm Purity
	Web Code Weight 1 Pot 564-774-698 20 g YEN 27400 051-834-129 50 g YEN 38000 630-752-366 100 g YEN 64000
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10. Nominally 3.5mm diameter x 6mm length pellets.
AG006110	Max. Lump size 10mm
	Web Code Weight 1 Pot 414-045-084 20 g YEN 27400 755-630-738 50 g YEN 38000 453-845-096 100 g YEN 64000
	Typical Analysis: Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10.
AG006106	Max. Lump size
	Web Code Weight 1 Pot 583-118-626 50 g YEN 38000 086-521-801 100 g YEN 64000
	Typical Analysis : Au 5, Bi 1, Cu 20, Fe 2, Mg 1, Pb 10. Nominally 9mm diameter x 15mm length pellets.



Silver				
Ag				
	Sphere			
AG006840	Diameter	phere	Tolerance \pm 50 μm	
	Quantity Web Code	Spheres	Quantity 1 Pot	
	349-438-788 487-204-836	20 pcs 50 pcs	YEN 15300 YEN 21600	
	684-418-457 546-178-899	100 pcs 200 pcs	YEN 30800 YEN 47800	
	Typical Analysis : Not applicable			
	Single Crystal			
AG002113	Oriented		Diameter	
	Web Code	Quantity	1pc	
	780-150-678		YEN PÔA	
	Typical Analysis : Not applicable		D: 40	
AG002118	Oriented	Quantity	Diameter	
	Web Code 457-297-930	Quantity	1pc YEN POA	
	Typical Analysis : Not applicable			
AG002111	Oriented (100) Diameter 10mm Condition Polished on		Thickness 2mm Purity 99.999% cron	
	Web Code 614-209-918	Quantity	1pc YEN POA	
	Typical Analysis : Not applicable			
AG002110	Oriented	Quantity	Thickness	
	Web Code 359-711-391	_	1pc YEN POA	
	Typical Analysis : Not applicable			
AG002119	Oriented (100) Length 10mm		Diameter	
	Web Code 054-033-497	Quantity	1pc YEN POA	
			TENTOA	
AG002114	Typical Analysis : Not applicable Oriented(100)		Thickness 3mm	
	Diameter	Quantity	Purity 99.999 %	
	Web Code 038-997-731	Quality	1pc YEN POA	
	Typical Analysis: Not applicable Although this crystal is normally held in sidelivery forecast of 4-10 weeks.	tock ready for im	nediate shipment it is an example of crystals which n	nay be grown to order with
AG002120	Oriented (100) Length	Quantity	Diameter	
	Web Code 706-972-566	,	1pc YEN POA	
	Typical Analysis : Not applicable			



Silver		
Ag 		
	Single Crystal	
AG002121	Oriented (100) Length 50mm	Diameter
	Web Code 731-481-481	1pc YEN POA
	Typical Analysis : Not applicable	
AG002151	Oriented	Thickness 2mm Purity 99.999% n
	Web Code 533-530-878	1pc YEN POA
	Typical Analysis : Not applicable	
AG002150	Oriented (110) Diameter	Thickness 2mm Purity 99.999%
	Web Code 824-162-695	1pc YEN POA
	Typical Analysis : Not applicable	
AG002131	Oriented	Thickness
	Web Code	1pc YEN POA
	Typical Analysis : Not applicable	
AG002130	Oriented	Thickness
	Web Code 846-980-729	1pc YEN POA
	Typical Analysis : Not applicable	
AG002160	Oriented(111) Length25mm Quantity	Diameter10mm Purity99.999%
	Web Code 851-173-059	1pc YEN POA
	Typical Analysis: Not applicable Although this crystal is normally held in stock ready for immedelivery forecast of 4-10 weeks.	diate shipment it is an example of crystals which may be grown to order with
AG002141	Oriented	Thickness
	Web Code 065-947-901	1pc YEN POA
	Typical Analysis : Not applicable	
AG002140	Oriented	Thickness 2mm Purity
	Web Code 403-933-579	1pc YEN POA



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