Serving The Needs of Science and Industry Worldwide

Au service de la Science et de l’Industrie dans le monde entier

Weltweiter Lieferant für Wissenschaft und Industrie

Metals and Alloys
Métaux et Alliages
Metalle und Legierungen

Ceramics
Céramiques
Keramiken

Polymers
Polymères
Polymere

Composites
Composites
Verbundwerkstoffe
Goodfellow Corporation
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Coraopolis, PA 15108-9302 PA 15108-9302
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200070
The People’s Republic of China
Tel: 00 86 21 6112 1560
Standard Price List for Aluminum/Magnesium/Silicon ( Al98/Mg 1/Si 0.6 )

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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 Catalog provides a detailed overview of our standard products which are available from stock. Full details of all of these items, including prices and technical information, can be found in our web Catalog at www.goodfellowusa.com.

Materials

Metals and Alloys

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

Ceramics

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

Polymers

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

Compounds & Intermetallics

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

Composites

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

Glasses

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

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

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

**Tolerances**

<table>
<thead>
<tr>
<th>Section dimensions:</th>
<th>&lt;10mm</th>
<th>± 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt;10mm</td>
<td>± 1mm</td>
</tr>
<tr>
<td>Length:</td>
<td>&lt;100mm</td>
<td>± 1mm</td>
</tr>
<tr>
<td></td>
<td>≥100mm</td>
<td>± 5%  / -1%</td>
</tr>
</tbody>
</table>

**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.

**Chopped Fiber**

Fibers cut into short lengths called cut, staple or chopped fiber.

**Tolerances**

| Fiber diameter:     | ± 25% |
| Number of strands:  | ± 10% |
| Tex number:         | ± 10% |
| Length:             | +5% / -1% |

**Crucible**

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

**Tolerances**

| Height:             | ± 10% |
| Inside Dimensions:  | ± 10% |
| Outside Dimensions: | ± 10% |

**Fabric**

Woven fabrics are made by the regular interlacing of two arrays of yarns at right angles to each other, these being referred to as the warp and weft (see also Non-woven fabric).

**Tolerances**

| Fabric thickness:   | ± 25% |
| Number of yarns:    | ± 10% |
| Tex number:         | ± 10% |
| Size (linear dimension): | <100mm | ± 5mm |
|                     | ≥100mm | ± 5% |

**Fiber**

Yarns or tows consisting of several approximately parallel individual filaments, each filament usually being smaller in diameter than a monofilament. Yarns contain a defined number of filaments, typically three to several hundred; tows contain thousands of filaments whose number is only defined approximately. Both are primarily specified by their linear density measured in "tex", the weight in grams of a 1km length of material.

**Tolerances**

| Fiber diameter:     | ± 25% |
| Number of strands:  | ± 10% |
| Tex number:         | ± 10% |
| Length:             | +5% / -1% |

**Film**

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

**Tolerances**

| Thickness:          | ± 20% |
| Size (linear dimension): | <100mm | ± 1mm |
|                     | ≥100mm | ± 2% / -1% |

**Flake**

Flat, irregularly shaped pieces of material. A maximum flake size is indicated but individual flakes may vary greatly in size.

**Tolerances**

Dimensions shown are nominal

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*Please visit [www.goodfellowusa.com](http://www.goodfellowusa.com) or email [info@goodfellowusa.com](mailto:info@goodfellowusa.com) for latest prices*
**Product Descriptions**

**Foam**
A low density, permeable structure of cells and continuous ligaments offering a high surface area to volume ratio, and also a high strength to weight ratio. Owing to the nature of this material, dimensions are nominal.

**Tolerances**
- Thickness:  
  - $< 0.010\text{mm}$: $\pm 25\%$  
  - $0.01-0.050\text{mm}$: $\pm 15\%$  
  - $> 0.050\text{mm}$: $\pm 10\%$
- Size (linear dimension):  
  - $< 100\text{mm}$: $\pm 1\%$  
  - $\geq 100\text{mm}$: $\pm 2\% / -1\%$

**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: $< 0.010\text{mm}$: $\pm 25\%$
- Size (linear dimension): $< 100\text{mm}$: $\pm 1\%$
  - $\geq 100\text{mm}$: $\pm 2\% / -1\%$

**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):  
  - $< 100\text{mm}$: $\pm 1\%$
  - $\geq 100\text{mm}$: $\pm 2\% / -1\%$

**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**
- Woven: $\pm 10\%$
- Electroformed: $\pm 20\%$
- Wire diameter: $\pm 10\%$
- Size (linear dimension):  
  - $< 100\text{mm}$: $\pm 1\%$
  - $\geq 100\text{mm}$: $\pm 2\% / -1\%$

**Metallized Film**
Film which is coated with a metal. The thickness of the metal is measured and described in terms of the material's specific electrical resistance in ohms per square.

**Tolerances**
- Thickness: $\pm 10\%$
- Size (linear dimension):  
  - $< 100\text{mm}$: $\pm 1\%$
  - $\geq 100\text{mm}$: $\pm 2\% / -1\%$
## Product Descriptions

### Microfoil

An extremely thin sheet of metal or alloy mounted on a permanent support. This support **cannot** be removed without destroying the Microfoil.

**Tolerances**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>± 30%</td>
</tr>
<tr>
<td>Size</td>
<td>± 20%</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>± 30%</td>
</tr>
<tr>
<td>Size</td>
<td>± 20%</td>
</tr>
</tbody>
</table>

### Monofilament

A single strand of a non-metallic material.

**Tolerances**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>± 20%</td>
</tr>
<tr>
<td>Length</td>
<td>+5% / -1%</td>
</tr>
</tbody>
</table>

### Non-Woven Fabric

Non-woven fabrics are made by methods other than weaving or knitting, the yarns and fibers being held together, often quite loosely, by means other than geometric interlacing. Due to the open and porous nature of this material, all other dimensions are nominal.

**Tolerances**

<table>
<thead>
<tr>
<th>Size (linear dimension)</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 100mm</td>
<td>± 5mm</td>
</tr>
<tr>
<td>≥ 100mm</td>
<td>± 5%</td>
</tr>
</tbody>
</table>

### Nut

Generally a flat piece of material with a threaded hole which can be screwed onto a bolt to fasten items together. Nuts typically have a hexagonal external shape. Nuts are available in metric and inch-threaded sizes.

**Tolerances**

| See item |

### Powder

Small particles with an approximately defined size range. Those materials described as alloy precursors are not true alloys - they are made by sintering a blend of powders of the component metals to achieve alloying by diffusion. The resultant cake is ground and sieved to the required particle size range. Unless otherwise stated, the particle sizes shown are for guidance only. We do not guarantee either any particular size distribution between the quoted minimum and maximum sizes, or a specific particle shape.

**Tolerances**

| Dimensions shown are nominal |

### Rod

A straight length of circular section material.

**Tolerances**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 10mm</td>
<td>± 10%</td>
</tr>
<tr>
<td>Polymer</td>
<td>±20%/-10%</td>
</tr>
<tr>
<td>Ceramic</td>
<td>±20%/-10%</td>
</tr>
</tbody>
</table>

| > 10mm   | ±5%              |
| Ceramic  | ±20%/-10%        |
| Polymer  | ±20%/-10%        |

<table>
<thead>
<tr>
<th>Length</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 100mm</td>
<td>±1mm</td>
</tr>
<tr>
<td>≥ 100mm</td>
<td>±5% / -1%</td>
</tr>
</tbody>
</table>
Sheet
Flat material with a thickness > 0.5mm.

Tolerances
Thickness: ± 10%
Ceramic ± 20%
Composite ± 20%
Polymer ± 20%
Size (linear dimension): < 100mm ± 1mm
≥ 100mm + 2% / -1%

Single Crystal
A material grown as a monocrystal, generally to a specific orientation, dimension and surface finish. It may contain a dopant. Single crystals are usually made to order.

Tolerances
Orientation: ± 3°
Size: Sizes shown are nominal

Sphere
A regular solid or hollow three-dimensional form in which every cross-section is a circle. Spheres are available with standard or precision tolerances, and can be supplied with different surface finishes depending on the material.

Tolerances
Diameter (standard): ± 5%
Diameter (precision): see item

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

Tolerances
Thickness: ± 0.5mm
Size: ± 0.5mm

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

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

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

Tolerances
See item

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

Tolerances
Wire diameter: ± 10%
Length: + 5% / -1%
HAZARDS
All materials listed in this catalog, whatever the quantity supplied, are sold for research or development purposes. We make no warranty that the materials are fit for a particular purpose. In purchasing materials from this catalog, customers should be aware that there may be hazards associated with their use and in the handling of them. Complete toxicological or hazard investigations are the responsibility of the customer. Ingestion or contact with the human body may be harmful. The responsibility for the safe use of our products rests with the customer. All materials should be handled by qualified personnel familiar with laboratory procedures and who are familiar with the nature of the material and any necessary precautions which should be taken in the handling, use and storage of the products. The customer shall be responsible for the control and use of the products offered in this catalog whether alone or in combination with other articles or substances or in any other manner whatsoever.

HAZARD SYMBOLS

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.
Analyses

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

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

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

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

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

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

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

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

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

**Light Tight (LT) & Not Light Tested (NLT)**
Light tight (LT) foils are supplied without visible pinholes after examination without magnification. Foils 0.025mm or more in thickness are supplied LT unless otherwise stated.

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

**Vacuum tight**
Vacuum tight foils show no detectable leakage when tested with a helium mass spectrometer with a sensitivity of $10^{-9}$ atm-cm$^3$.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 shown are in US$ and include free delivery by our standard 48 hour service except for those items marked as "special offer" or dangerous goods with transport restriction. Prices are subject to change without notice and orders will be invoiced at prices ruling on the date of despatch.

**Transport Restriction**
Some of the materials supplied by Goodfellow are subject to special transport restrictions. Additional shipment charges may apply which are dependent on destination. Please check the individual item on our website or contact us for details of the charges.
If you intend to have the material transported or sent onwards please ensure that you are aware of the relevant transport restrictions.

**Delivery**
Delivery by UPS or Federal Express is included in the prices, although alternative methods may be used depending on the materials ordered.

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

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

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

**Express Service**
Please inform us if you need to have your goods shipped urgently. An administrative charge will be made for this service, details can be found on our website.

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

**Despatch**
Orders will normally be shipped within 48 hours of receipt.

**Non-delivery**
If we have notified you of the shipment of goods and you have not received delivery within 5 days, please contact us.

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

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

**Materials Handling**
Many of our materials are extremely delicate and it is essential every care is taken when handling them. Special attention is drawn to the extreme fragility of Microfoil, Microleaf and thinner and finer materials.
All materials are carefully packed to ensure safe transport of goods to your address. We do not accept responsibility for damage caused by mishandling once the outer transit packaging has been removed.

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

**Credit account**

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

**Credit card payments**

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

- Mastercard
- VISA
- American Express

**VAT**

VAT number for Goodfellow Cambridge: GB 212 8527 79

**UK**

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

**EU**

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

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

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

**Export**

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

**Return of goods**

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

**Claims**

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

**Goods ordered in error**

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

**Conditions of sale**

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

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

**Exclusions**

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

**Law**

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

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

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

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

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

The Goodfellow Group consists of five companies:

**Goodfellow Cambridge Limited**

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

**Goodfellow Corporation**

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

**Goodfellow GmbH**

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

**Goodfellow SARL**

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

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

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

COMPANY DETAILS

**Goodfellow Cambridge Limited**

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

**Goodfellow Corporation**

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

**Goodfellow SARL**

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

**Goodfellow GmbH**

Am Alstertwiete 3
D-20099 Hamburg
Germany
Registered in Hamburg No. HRB 152991
Import VAT number DE112610478

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

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

Please visit [www.goodfellowusa.com](http://www.goodfellowusa.com) or email [info@goodfellowusa.com](mailto:info@goodfellowusa.com) for latest prices.
Conditions of Sale

1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:

Buyer* the individual firm company or other party from whom an order to supply Goods and/or Services is received by the Seller.

Conditions* the standard terms and conditions of sale of the Seller as set out herein and incorporating or referring to these Conditions but in circumstances where the Buyer has had prior notice of these Conditions then all additional terms and conditions of sale agreed in writing by the Seller.

Contract* a contract for the Supply of Goods and/or Services by the Seller to the Buyer.

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

Goods* the goods which the Seller is to supply (or, if relevant, a Supplier) or any part thereof.

Prepayment* a payment to be made by the Buyer pursuant to Condition 6.2 to be used at the Seller’s discretion for the purchase of materials and/or towards any costs of labour other than wages or similar costs relating to the purchase of Goods;

Recommendations the recommendations (if any) relating to the for Use* storage, handling, application and/or use of the Goods contained in the published literature of the Seller (or, if relevant, a Supplier) or in any other document; these recommendations may be modified by the Buyer before placing an order.

Seller* Goodfellow Cambridge Limited and any subsidiary or holding company or associate (as such terms are defined in Articles 4 and 835 (as amended) of the said company); including (but without prejudice to the generality of the foregoing) any (“the Seller’s”) advertising literature which may not be identical with those set out in the Seller’s catalogues, pamphlets, price lists or any part thereof. The Buyer shall not be entitled to assign the provisions of Condition 10.2

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

1.2 If satisfactory references and information on the Buyer are not provided within seven days of a request therefore by the Seller, or if, following the provision of such information, the Seller is unable to obtain satisfactory trade indemnity or similar cover in respect of its dealings with the Buyer, the Seller may terminate the Contract and return any money already paid and the Buyer shall be under no obligation to the Buyer and all payments made shall be retained by the Seller in accordance with the provisions of Condition 10.2.

1.3 The seller reserves the right to assign, sub-contract the Contract or any part thereof. The Buyer shall not be entitled to assign the benefit or burden of the Contract without the consent in writing of the Seller.

1.4 In relation to all obligations of the Buyer under these Conditions, the time of performance is of the essence.

1.5 The legal construction of these Conditions shall not be affected by their headings which are for convenience of reference only.

2 ORDERS

2.1 Notwithstanding that the Seller may have given a detailed quotation or estimate either verbally or in writing or on a quotation form which shall be binding on the Seller unless and until it has been acknowledged in writing by the Seller or the Goods are delivered the Services are provided by the Seller to the Buyer pursuant to the order.

2.2 In order to avoid duplication of orders the Buyer shall be responsible for ensuring that any confirmation of 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 all 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 offer or other 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 the Seller in full against all loss, which firm shall include (but without prejudice to the generality thereof) loss of profit, costs (including the cost of labour and material), damages, charges and expenses incurred (directly or indirectly) by the Seller as a result of such variation.

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

3 DESCRIPTION

3.1 Any figures, statements, descriptions, illustrations, photographs, drawings, weights or any other matters contained in the Seller’s catalogues, pamphlets, price lists or advertising literature are not guaranteed to be accurate and are intended merely to represent a general picture of the Seller’s products and shall not form part of the Contract nor be regarded as a warranty or representation relating to the Goods or Services.

3.2 The Seller reserves the right to amend the specification of its products and services from time to time so that the descriptions thereof as set out in its catalogues, pamphlets, price lists or advertising literature may not be identical with those set out in the Seller’s quotation and the Buyer is advised to check the specification set out in the Seller’s quotation before placing an order.

4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

4.1 Where goods are supplied to the Buyer’s own specification, or where standard goods of the Seller are altered in accordance with the Buyer’s instructions the Buyer warrants and undertakes full responsibility for the suitability and fitness of the specification, pattern or design but also that such specification, pattern or design does not infringe any patent, trade mark, registered design, copyright or any other proprietary right of any third party and the Buyer shall indemnify and keep the Seller indemnified in full against any loss, damage or expense whatsoever (including (but not limited to) all the costs which the Seller may incur or arising from the performance of the Contract by reason of any infringement of any such patent, trade mark, registered design, copyright or any other proprietary right.

4.2 The Seller reserves the right to change the Buyer’s specification as required to ensure that the Goods comply with any requirements and that the time of performance is of the essence.

4.3 Unless otherwise agreed in writing, the Seller will be the sole owner of all inventions, formulae, methods, designs or similar items and the copyright in all documents and drawings made or produced by it in preparing a quotation for the Buyer or in the course of work on any Contract with the Buyer.

5 QUOTATIONS

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

6 PRICE

6.1 The Seller shall be entitled to adjust the Contract price of the Goods or Services whether before or after the making of the Contract in the event of any variation in the cost to the Seller of supplying the same or any part thereof caused by-:

6.1.1 any increase in the cost of materials required by the Seller for the completion of the Contract;

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 set out in the terms set out in this Condition. The Prepayment shall be applied as follows:-

6.2.1 in the event that the Contract is performed in full by both parties the Prepayment shall be retained by the Seller in reduction of the total price payable by the Buyer under the Contract;

6.2.2 in the event that the Buyer is either in default of any of its obligations under the Contract or cancels or suspends the Contract in accordance with Condition 10 the Prepayment shall be set off by the Seller from any sums 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 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 any health, VAT 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.

6.4 Where the Buyer requests a particular means of delivery, the price set out in the Seller’s quotation does not include the insurance, which is to be arranged at the responsibility of the Buyer.

7 DELIVERY

7.1 Delivery of Goods shall be deemed to be effected by the Seller at the following times:

7.1.1 where Goods are collected in person by the Buyer or its servants or agents, or where Goods are collected in...
Conditions of Sale

1. **Orders and Payment**
   - Orders must be in writing and accepted by Goodfellow Corporation (the “Seller”).
   - Payment terms are specified in the order or, if not specified, payment is due within 30 days of delivery.
   - Goods are sold FOB Goodfellow Corporation’s warehouse, and risk of loss is transferred to the Buyer upon delivery.
   - Unless otherwise agreed, payment must be made prior to delivery.

2. **Delays in Delivery**
   - If the Seller experiences delays due to unforeseen circumstances, the contract may be renegotiated or cancelled.
   - The Seller will notify the Buyer of any significant delays.

3. **Inspection**
   - The Buyer must inspect the Goods immediately upon delivery and notify the Seller of any discrepancies within 7 days.
   - Goods must be returned to the Seller at the Buyer’s expense if discrepancies are found.

4. **Disputes**
   - Any disputes arising from the contract will be resolved through arbitration.
   - The arbitration process is subject to the terms agreed in the order.

5. **Termination**
   - Either party may terminate the contract if the other party is in material breach.
   - Termination will be effective upon notice, and any payments due prior to termination will be made immediately.

6. **Force Majeure**
   - The Seller is not responsible for delays or default due to force majeure events.
   - Force majeure includes acts of God, war, and other circumstances beyond the Seller’s control.

7. **Warranty**
   - The Seller provides a 90-day warranty on all Goods.
   - Warranty claims must be made within 30 days of discovery.

8. **Insurance**
   - The Seller will provide insurance coverage for the Goods from the time of delivery to the Buyer’s premises.
   - The Buyer is responsible for all other transportation insurance.

9. **Legal Compliance**
   - The Buyer is responsible for all regulatory and legal compliance related to the Goods.
   - The Seller will not be liable for any legal consequences arising from the Buyer’s use of the Goods.

10. **Confidentiality**
    - Any information exchanged between the Buyer and the Seller will be treated as confidential.
    - The Buyer agrees not to disclose such information without the Seller’s consent.

Goodfellow Corporation

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Conditions of Sale

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

12.2 Notwithstanding the provisions of Condition 12.1, in the case of a claim falling within Condition 12.1, the Seller reserves the right at its sole discretion to credit the Buyer in full the price paid by the Buyer to the Seller.

12.3 The Seller’s liability under this Condition shall automatically cease if:

12.3.1 the Buyer has not paid for all Goods or Services supplied under any Contract by the due date or is otherwise in breach of this or any other Contract made with the Seller;

12.3.2 the Buyer 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 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 shall 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 (howsoever 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 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 to do so 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 14.1 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 in a reputable 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

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 these Conditions, the latter shall prevail.

16.2.1 the provisions of Incoterms shall (subject to any special terms agreed in writing between the Buyer and the Seller) apply 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 for payment of 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 Contractor 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 or before the time the Buyer’s order is placed, or to sell the Goods to any person if the Seller has reason to believe that person intends to resell the Goods in such country.

17 BUYER’S WARRANTIES

17.1 The Buyer warrants to the Seller that:

17.1.1 the Buyer will install, operate or otherwise use or store the Goods strictly in accordance with the Recommendations for Use and with all relevant or applicable statutory or other regulations governing the installation, operation, use or storage of the Goods; and

17.1.2 any collection vehicle, container, ship or other means of transport provided by the Buyer or any agent of the Buyer will comply with all relevant legislation and regulations relating to health and safety requirements; and

17.1.3 the storage and transport facilities and all parts thereof and all equipment used in connection therewith is suitable for storage (both short term and long term) and transport of the Goods and complies with any statute, regulation, by law or other rule having the force of law and relating to the storage of goods of the nature of the Goods; and

17.1.4 the Buyer will ensure that the Goods are stored in conditions appropriate to goods of that nature and will comply with any recommendations as to the storage of Goods notified to it by the Seller from time to time; and

17.2 The Buyer shall indemnify and keep indemnified the Seller in full against any claim, loss or damage (including, without limitation, damage to the reputation of the Seller) arising directly or indirectly from any breach of the warranty contained in Condition 17.1.

18 SEVERANCE

18.1 If at any time any one or more of the provisions or part thereof of these Conditions becomes or is held 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 party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving notice.

20.2 Any notice given pursuant to clause 20.1 shall be deemed to have been served:

20.2.1 if delivered by hand, on the first Business Day following delivery;

20.2.2 if sent by post, on the third Business Day after posting if the address of the recipient is in the country of the Seller and on the seventh Business Day after posting if the address of the recipient is not in the country of the Seller.

20.3 If sent by facsimile transmission, on the first Business Day following successful transmission.

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 sent to or to which such notice is despatched.

21 WAIVER

21.1 Any waiver or variation of these Conditions shall only be effective if in writing and signed by an officer of the Seller who is authorized to do so.

21.2 Any waiver by the Seller of any breach by the Buyer of these Conditions or any terms hereof shall not prevent or limit the Seller's right to take action in respect of any subsequent or other breach by the Buyer.

21.3 No waiver by the Seller of any rights arising under these Conditions shall be deemed to be a waiver of any similar right or of any such right in the future or of any breach hereof which is repeated or which may happen or arise on any subsequent occasion.

21.4 A waiver by the Seller of any breach by the Buyer of these Conditions or any terms hereof shall not prevent or limit the Seller's right to take action in respect of any such breach or of any similar breach or of any breach hereof which is repeated or which may happen or arise on any subsequent occasion.
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.
Aluminum/Magnesium/Silicon
Al98/Mg 1/Si 0.6

Medium strength, low weight alloys. Although not as strong as Aluminum/Copper/Magnesium alloys, these alloys have good formability, weldability, machineability and corrosion resistance. Uses include architectural applications, bicycle frames, bridge railings and welded structures.

Physical Properties
Density 2.69 g cm\(^{-3}\)
Electrical Properties
Electrical resistivity 3.4-3.8 \(\mu\)Ohmcm
Temperature coefficient 0.0030 K\(^{-1}\)
Thermal Properties
Coefficient of thermal expansion @20-100C 23.0 x10\(^{-6}\) K\(^{-1}\)
Specific heat @23C 904 J K\(^{-1}\) kg\(^{-1}\)
Thermal conductivity @23C 180-193 W m\(^{-1}\) K\(^{-1}\)

Mechanical Properties
Elongation at break <20 %
Hardness - Brinell 10-100
Impact strength 27-34 J m\(^{-1}\)
Modulus of elasticity 70 GPa
Shear strength 160-200 MPa
Tensile strength 150-430 MPa

Foil

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Typical Analysis: Not applicable
Very limited stock available.

Wire

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Typical Analysis: Cr 2500, Cu 2500, Mg 1.0%, Si 6000

Printed prices are correct as at June 07 2019. For current prices see www.goodfellowusa.com
# Aluminum/Magnesium/Silicon

## Al98/Mg 1/Si 0.6

### Wire

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Typical Analysis: Cr 2500, Cu 2500, Mg 1.0%, Si 6000

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Typical Analysis: Cr 2500, Cu 2500, Mg 1.0%, Si 6000

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Goodfellow Corporation 125 Hookstown Grade Road, Coraopolis, PA 15108-9302. USA
Tel: 1-800-821-2870 : Fax 1-800-283-2020

Printed prices are correct as at June 07 2019. For current prices see www.goodfellowusa.com
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