

**LA
MET**

i laminati d'argento



SILVER PRODUCTS

for Silversmiths & Jewellers



LA.MET S.p.A.

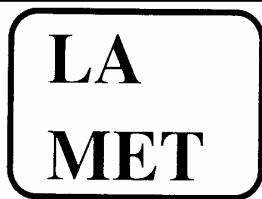
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Located in Padova Italy, La.Met was established in 1992 and has quickly grown to become one of the leading manufacturers of premium-grade silver semi-finished items for the production of silverware and silver jewellery.

From our first day of production the focus of the company has been to manufacture semi-finished silver items to the highest possible quality standards and consistency supplied at competitive rates and short delivery times. We have managed to develop a wide customer base with manufacturers of silverware and silver jewellery throughout Italy and other European countries.

Our product range now includes silver sheets, strips, shapes, blanks, wires, solders, silver foil and silver foil coupled with aluminium for photo-frames. These products are available in several different silver grades and many different standard sizes. The following pages list and detail the full standard stock product range. We are however happy to study special orders for specific non-standard requirements; please contact La.Met sales staff directly for such requests.

Quality control

Stringent quality control checks at each stage of production help maintain the tight tolerance values that have been set for the dimensions and flatness of all La.Met products.

UNI EN ISO 9001: 2000

La.Met 's quality and production procedures have been successfully certified according to UNI EN ISO 9001:2000 International Standards

Technical characteristics

Technical specifications for the La.Met products of interest to you can be supplied to you upon request.

Delivery

From our stocks we try to ensure a prompt delivery service using renowned and efficient international forwarders.

Technical advise

Please contact La.Met experienced customer-service staff for expert technical assistance in selecting the correct La.Met product for your specific production requirements.

Refining

We offer a full service for the melting, assaying and refining of silver scrap, lemel and sweeps.

Silver grain

La.Met offers high quality silver grain (minimum purity 99,95%) at competitive rates. Please contact La.Met sales staff for a quotation.

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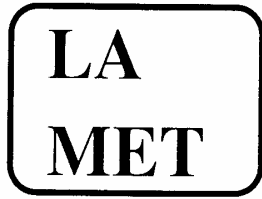
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SOFT-ANNEALED SILVER SHEET

Silver sheets are manufactured in fire-free, soft-annealed physical condition and are protected from damage by a low-tack plastic laminate coating.

Such sheets are produced in 800‰ and 925‰ silver grades as standard and 935‰, 950‰, 960‰ and 999‰ silver grades upon request. Standard dimensions are 500mm x 1000mm.

Such sheets are manufactured in thicknesses from 0,30 to 2,00mm with 0,05mm intervals. Tolerance on thickness values is +/- 0,02mm.

Standard hardness values for soft-annealed 500 x 1000mm sheets are as follows:

Ag 800‰	: 83 Hv +/- 5 Hv
Ag 925‰	: 65 Hv +/- 5 Hv

For thicknesses over 2,00mm we manufacture a rough-rolled sheet in standard dimensions of 360mm x 1000mm. Available thicknesses range from 2,10mm to 10,00mm with 0,10mm intervals. Tolerance on thickness values is +/- 0,05mm.

360 x 1000mm rough-rolled sheets are manufactured in 800% and 925% sterling silver grades in soft-annealed physical condition. Orders in hard-rolled physical state can be accepted but will be treated as special orders.

Standard hardness values for soft-annealed 360 x 1000mm sheets are as follows:

Ag 800‰	: 85 Hv +/- 10 Hv
Ag 925‰	: 75 Hv +/- 10 Hv

SQUARES...RECTANGLES...OVALS...CIRCLES.....SHAPES...

The abovementioned standard shapes and customised non-standard shapes can be cut from standard 500mm x 1000mm sheets in thicknesses from 0,30mm to 1,80mm. We guarantee high quality reproduction of your shapes and quick delivery times. Where possible, please send us the dimensions of the shapes to be reproduced on an electronic file (CAD) by email.

Special orders for dimensions above 500 x 1000mm can be accepted. Please refer to La.Met 's sales staff for further details.

HARD SILVER SHEET

For some applications a useful option is a silver alloy which is in a hard-rolled or semi-hard-rolled condition rather than the standard soft-annealed state. Hard-rolled and semi-hard-rolled sheets can be supplied as special orders. Please indicate a specific (Hv) Vickers hardness value when sending requests for hard-rolled or semi-hard-rolled sheets.

SILVER DISCS

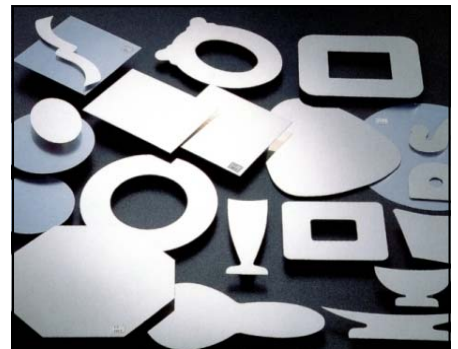
Discs can be machine-cut from standard 500mm x 1000mm sheets in diameter ranging from 115mm to 495mm. Thicknesses that can be cut range from 0,30 to 1,80mm.

For discs from 25 to 115mm diameter we have a complete range of press tools to blank discs. Thicknesses that can be blanked range from 0,20 to 1,90mm.

For requests of thicknesses above 1,90mm please contact La.Met sales staff to discuss the possibility of a special order.

SILVER STRIP

Fully annealed 800‰ and 925‰ silver strips are available with widths ranging from 20mm to maximum 360mm in thicknesses 0,20mm to 0,80mm (thicknesses from 0,81 to 2,00mm upon request).



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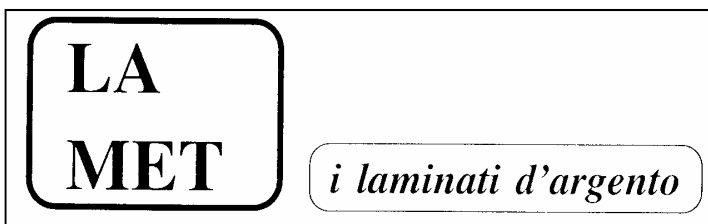
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ROUND WIRE

La.Met silver round wire is manufactured in Ag 800‰, 925‰ sterling, 935‰, 940‰ and 999‰ finenesses.

Round wire can be supplied in soft-annealed, hard-rolled and semi-hard-rolled physical state. The corresponding hardness values are listed below. Specific hardness also available.

The sizes available range from a maximum diameter of 7mm to a minimum of 0,20mm. For diameters over 7mm please see the next page on this catalogue for La.Met rods.

The standard interval sizes for round wire are as follows:

from \varnothing 7,00 to 3,50mm: 0,25mm intervals – tolerance \pm 0,06 – hanks internal \varnothing 400mm.

from \varnothing 3,40 to 1,00mm: 0,10mm intervals - tolerance \pm 0,04 – hanks internal \varnothing 200mm.

from \varnothing 1,00 to 0,40mm: 0,05mm intervals - tolerance \pm 0,01 – hanks internal \varnothing 200mm.

from \varnothing 0,35 to 0,20mm: 0,05mm intervals - tolerance \pm 0,006 – only in reels

Hardness values are as per the table below.

SQUARE WIRE

La.Met silver square wire is manufactured in Ag 800‰, 925‰ sterling, 935‰, 940‰ and 999‰ finenesses.

Square wire from rolling mill with rounded edges (only available in soft-annealed state) is manufactured in the following side sizes: : 8,7 – 8,0 – 7,4 – 6,8 – 6,3 – 5,8 – 5,35 – 4,95 – 4,55 – 4,2 – 3,9 – 3,6 – 3,3 – 3,05 – 2,85 – 2,65 – 2,45 – 2,1 – 1,95 – 1,8 – 1,65mm (tolerance approx \pm 0,10mm.) wound in hanks with internal \varnothing of 240mm

Square wire with sharp edges (available in soft-annealed and semi-hard-rolled states) is available with side sizes from 6,00 to 1,50mm with 0,10mm intervals (tolerance approx \pm 0,05mm) wound in hanks as per round wire on left. Standard hardness values are as per the table below.

HALF-ROUND WIRE

La.Met silver half-round wire is manufactured in Ag 800‰, 925‰ sterling, 935‰, 940‰ and 999‰ finenesses. Half-round wire can be supplied in soft-annealed and semi-hard-rolled physical state.

Half-round wire is understood as wire with a profile equivalent to half of a circle, thus the height is exactly half of the diameter.

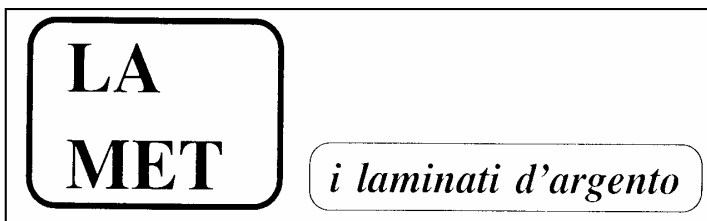
Half-round wire is available in sizes from 6x3 to 1,5x0,75mm with 0,10mm intervals (referring to diameter). Tolerance values are approx \pm 0,05mm.

Standard hardness values are as per the table below.

	Ag 800‰	Ag 925‰	Ag935‰	Ag 940‰	Ag 999‰
Soft-annealed	85 \pm 10 Hv	75 \pm 10 Hv	74 \pm 10 Hv	74 \pm 10 Hv	45 \pm 10 Hv
Semi-rolled	120 \pm 20 Hv	105 \pm 20 Hv	100 \pm 20 Hv	100 \pm 20 Hv	70 \pm 15 Hv
Hard-rolled	160 \pm 20 Hv	145 \pm 20 Hv	140 \pm 20 Hv	140 \pm 20 Hv	100 \pm 15 Hv

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STANDARD SILVER RODS

La.Met silver rods are manufactured in Ag 800‰ and 925‰ sterling finenesses. In 8mm and 9mm diameters, rods are also manufactured in Ag 935‰ and 940‰ finenesses.

Directly-cast rough finished rods in diameters 10, 16 and 23 mm with maximum length 1700mm approx. can be supplied. Alternatively straightened, calibrated and hardened finished rods can be supplied in the standard lengths in the table below:

Rod Ø	Nr of pieces and standard lengths obtainable from one single rough rod			
22	1 x 1785			
21	1 x 1960			
20	1 x 2160	2 x 980		
19	1 x 2400	2 x 1200		
18	1 x 2670	2 x 1335		
17	1 x 2990	2 x 1495	3 x 995	
16		2 x 1690	3 x 1125	
15	1 x 1840	2 x 920		
14	1 x 2110	2 x 1055		
13	1 x 2450	2 x 1255		
12	1 x 2870	2 x 1435	3 x 995	
11		2 x 1710	3 x 1140	
10		2 x 2070	3 x 1380	4 x 1035
9		2 x 2000		4 x 1000
8			3 x 2000	6 x 1000

Rods are supplied as standard in hard physical state from hammering stage. Requests for soft-annealed physical state can be accepted as special orders.

Hardness values for hard-rolled rods are as follows:

Ag 800‰: 145 Hv +/- 20 Hv

Ag 925‰-Ag 940‰: 140 Hv +/- 20 Hv

Hardness values for soft-annealed rods are as follows:

Ag 800‰: 90 Hv +/- 10 Hv

Ag 925‰-Ag 940‰: 80 Hv +/- 10 Hv



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PURE SILVER FOIL

Over recent years, La.Met 's technical team has invested a tremendous amount of research and development to perfect production of 350mm-wide fine silver foil. Purity is minimum 995‰ Ag.

We can now produce 0,020mm silver foil efficiently and consistently. Our product is perfectly wound on 125-mm diameter PVC tubes and is completely wrinkle-free.

The full range of thicknesses of fine silver foil available is: 0,020 - 0,025 - 0,030 - 0,035 - 0,040 - 0,050 mm upto max. 0,10mm in 0,010 intervals. Hardness is 45 Hv +/- 5 Hv in soft-annealed physical state. Requests for semi-hard-rolled and hard-rolled foil can be accepted as special orders.

Recently, La.Met has also developed a specific item for the production of light-weight photo-frames: we can now couple our high purity fine silver foil with aluminium.

Our standard product line of " bilaminato " silver + aluminium has a fixed width of 350mm and length upto maximum 1000mm. The combinations available are as follows:

0,020mm silver foil coupled with 0,30mm aluminium sheet
0,026mm silver foil coupled with 0,30mm aluminium sheet
0,030mm silver foil coupled with 0,30mm aluminium sheet

0,020mm silver foil coupled with 0,50mm aluminium sheet
0,026mm silver foil coupled with 0,50mm aluminium sheet
0,030mm silver foil coupled with 0,50mm aluminium sheet



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CADMIUM-FREE SOLDERS

La.Met manufactures a full range of cadmium-free silver solders in wire, rods and powder.

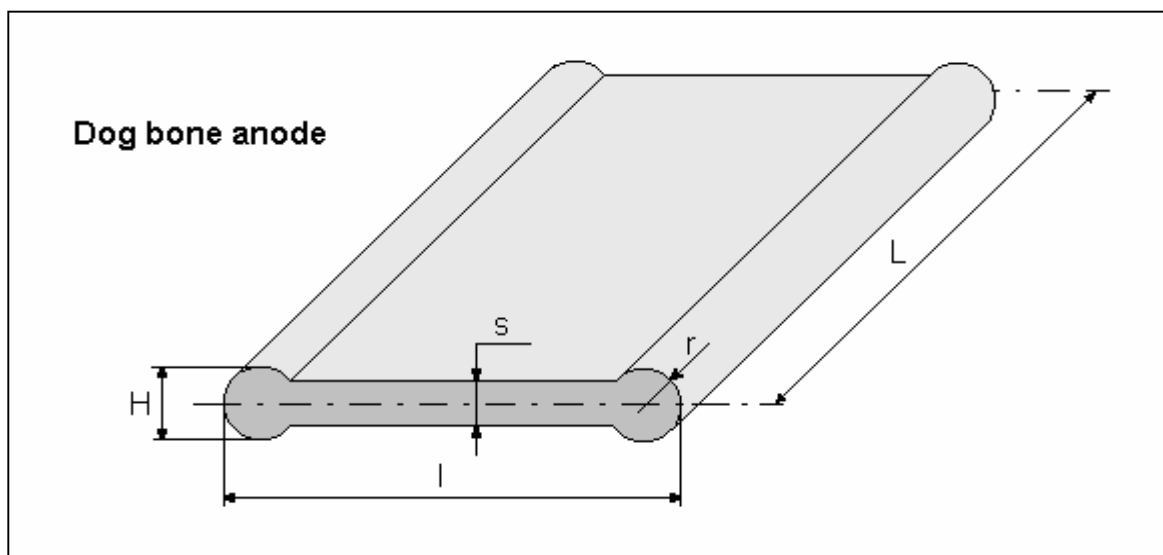
Lamet Code	Ag ‰	Solidus	Liquidus	Density	Wire	Rods	Powder	DIN-8513
LAMET Q-400	400	650°C	710°C	9,1g/cm ²	yes	yes	no	L-Ag40Sn
LAMET Q-450	450	640°C	682°C	9,2g/cm ²	yes	yes	no	L-Ag45Sn
LAMET Q-550	550	630°C	660°C	9,4g/cm ²	yes	yes	no	L-Ag55Sn
LAMET Q-560	560	620°C	655°C	9,5g/cm ²	yes	yes	no	L-Ag56Sn
LAMET Q-600	600	620°C	685°C	9,6g/cm ²	yes	yes	no	L-Ag60Sn
LAMET T-600	600	695°C	730°C	9,5g/cm ²	yes	yes	yes	L-Ag60
LAMET T-675	675	700°C	730°C	9,6g/cm ²	yes	yes	no	L-Ag67
LAMET T-740	740	740°C	780°C	9,8g/cm ²	yes	yes	no	_____

DOG-BONE ANODE

La.Met also manufactures 999‰ high purity fine silver anodes for plating and electroplating applications. Two different models of anodes are available of follows (all values are in mm):

Anode model A70: l 70 s 7,2 r 5 H 10 length to be specified in order for cutting-to-size (standard 1200mm)

Anode model A50: l 50 s 6,5 r 4,75 H 9,5 length to be specified in order for cutting-to-size (standard 1200mm)



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