

AgosiRefining

The Precious Metals Cycle

With our recycling management services, we support you in reintegrating production residues into your precious metals cycle. We process your material and provide the resulting value according to your requirements: as a delivery of fine metals or products, as a precious metal credit to your metal account, or as a purchase with payment to your bank account.

As a system supplier, we offer a comprehensive range of services along the precious metals cycle and support our customers with individually fitting solutions.



The information provided on our products, equipment, processes and applications is based on our current knowledge and many years of experience in research, development and industrial practice. It is provided to the best of our knowledge and belief. As part of our commitment to continuous improvement, we reserve the right to make technical modifications to our products and processes without prior notice. Upon request, our technical experts will be pleased to assist you in selecting suitable products and to provide support with manufacturing and application-related questions.

However, the information and recommendations provided do not release the user from the responsibility of independently verifying the suitability of our products, processes and recommendations for the intended purpose. This applies in particular to applications and processes that have not been expressly recommended by us in writing, as well as to the observance of third-party intellectual property rights, especially in the case of international applications.

To the extent permitted by applicable law, our liability shall be governed exclusively by the terms of the respective contractual relationship and by our General Terms and Conditions in their current version. These are available at www.agosi.de/download

Agosi is part of the Umicore Group, headquartered in Brussels. Umicore combines expertise in materials science, chemistry and metallurgy and operates in the business areas of Battery Materials, Catalysis, Recycling and Specialty Materials.

Together with its affiliated companies in Austria, Thailand, North America and South America, Agosi forms the Jewelry & Industrial Metals business unit within the Umicore Group. Its portfolio includes precious metal services, semi-finished products, trading products and refining services for the precious metals processing industry.

Agosi is certified according to the Responsible Jewellery Council's Chain of Custody Standard (RJC CoC). In addition, the company holds the LBMA recognitions „Responsible Gold" and „Responsible Silver". Thus Agosi can offer certain precious metal products according to the respective standard requirements.

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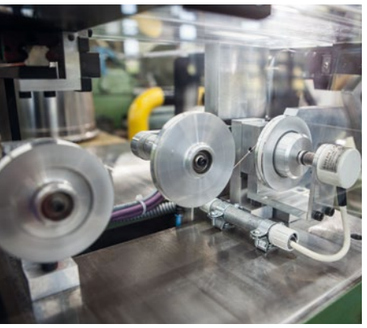
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AgosiLifestyle

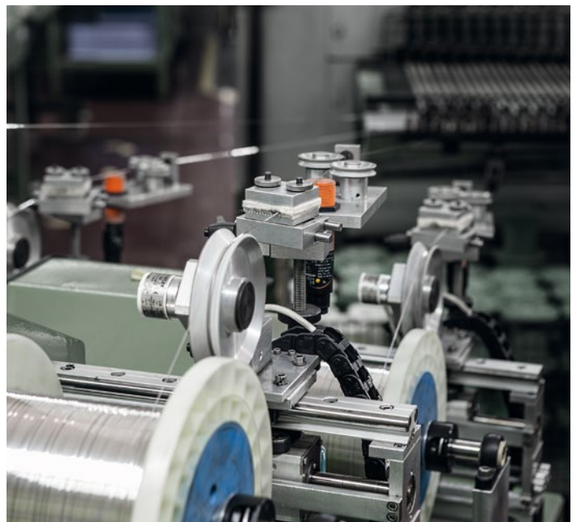
Alloys and semi-finished products for the jewellery and watch industry











Listen. Understand. Find solutions.

We like to be in close, personal contact with our customers so that we can get a clear picture of where our products are being used. This puts us in a position to offer a wide range of products, both in standard and in special designs. Our products are always manufactured to conform to your requirements.

Agosi sheets, tubes and wires are manufactured with the same degree of diligence as a CNC precision turned part from our production facility. As our customers use our semi-finished products for a variety of applications, the alloys must remain consistent in quality and it is our constant quality control and material analysis that help ensure the reliability of the functional properties.

CoC gold according to the RJC-standard

Agosi is a member of the Responsible Jewellery Council (RJC) and is certified under the current RJC Chain-of-Custody (CoC) Standard. Within the scope of this certification, Agosi meets the RJC requirements for traceability and responsible sourcing of CoC materials.

The present certificate and the applicable certification scope can be found at www.agosi.de.

Use this brochure as a source for new ideas. Our competent team will be happy to help you with your projects and your questions.

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LBMA
GOOD DELIVERY REFINER

DIN **EN** ISO/IEC
17025:2018

RESPONSIBLE JEWELLERY COUNCIL
CERTIFIED MEMBER
0000 5083

KPMG
KPMG Cert GmbH
Zertifiziert nach
ISO 9001
Reg.-Nr. 1249
ISO 14001
Reg.-Nr. 1250
ISO 50001
Reg.-Nr. 1251

AgosiSheets
AgosiStrips
AgosiPlates
AgosiStampingParts

The basis for brilliant results

Sheets and strips with excellent deep drawing characteristics for simple and efficient processing into high-quality end products, available with a brush finish or, by special request, with bright-rolled surfaces. Required hardness and dimension tolerances are monitored by our laboratories. Be it sheets, strips or plates – consistent quality helps ensure efficient processing further down the line.

- In-house tool design based on your drawings for stamped parts
- Modern stamping technology for a clean cut and tight tolerances
- High product purity and quality and a wide range of standard materials



Material

MATERIAL/ALLOY		colour	density g/cm³	hardness HV 5 recrystallised, annealed
333/75		deep yellow	10.9	105
375/27	S	red	11.3	100
376/60		deep yellow	11.0	110
585/40		red	13.1	130
585/90	S	deep yellow	13.0	130
585/100	S	rosé	13.2	140
585/200	S	yellow	13.6	175
585/260	S	yellow	13.7	160
585/300		light yellow	14.0	140
585/340		greenish yellow	13.8	120
585/415	S	pale yellow	14.3	40
750/5	S	red	15.1	160
750/20	S	red	15.0	150
750/40		red (5N)	15.2	160
750/90		rosé (4N)	15.3	140
750/130		deep yellow (3N)	15.4	140
750/150		light yellow (2N)	15.6	130
917/ -	S	rosé	17.6	90
917/53	S	yellow	17.9	55
375 S3	S	white 1,5% Pd	12.3	105
585 S		white 10% Pd	14.5	90
585 S2		white 14% Pd	14.4	130
585 M		white 19% Pd	14.5	160
750 S		white 10% Pd	16.0	100
750 A	S	white 10% Pd	15.7	160
750 U		white 12.5% Pd	16.0	130
750 CHC		white 13% Pd	15.7	160
750 S2		white 14% Pd	16.0	120
750 M		white 16% Pd	15.9	140
750 M1		white 21% Pd	16.4	95
750 H1	S*	white 10% Ni	14.8	230
750 H8		white 5% Ni	14.8	130
PdAg 950/20		grey	11.8	100
PtRu 600		grey	13.7	180
PtW 950		grey	21.3	150
PtRu 950		grey	20.7	130
PtPlus 953		grey	19.9	160
PtCu 953		grey	20.1	110
PtCo 950		grey	20.1	130
Ag 925		white	10.4	70
Ag 935		white	10.4	70
Ag 950	S	white	10.4	70
Ag 970	S	white	10.4	55
fine silver	Ag 4N		10.5	35
fine silver	Ag 3N7		10.5	35
fine gold	Au 99.99%		19.3	28
platinum	Pt 3N5		21.5	48
palladium	Pd 3N5		12.0	50

S = special alloy

** = alloy contains nickel and does not conform to standard DIN EN 1811:2011 on leaving factory*

Further alloys on request.

Surface finish depends on product form ordered: bright-rolled, rolled or brush finish.

Product

PRODUCTS	thickness mm	width mm	length mm	tolerances
strips Au-, Pt-, Pd materials	0.1 - 2.0	3.0 - 100.0	continuous	DIN EN 1652
strips Ag-materials	0.5 - 2.5 0.1 - 2.0	max. 350 max. 100		DIN EN 1652
pre-rolled strips Ag-materials	2.0 - 4.0	max. 350		on request
cut sheet sections	0.1 - ca. 15.0	according to customer specification	according to customer specification	DIN EN 1652
plates Ag 935 and Ag 925	0.3 - 3.0	500 oversize dimensions on request	1000	DIN EN 1652
cut plate sections Ag 935 and Ag 925	0.3 - 3.0	< 500	< 1000	DIN EN 1652
pre-rolled sheets	1.5 - 8.0	360 (ca.)	1000	width ± 5 mm

Oversize dimensions and further materials on request.

Your benefits

- reliable processing into high-quality end products
- prompt delivery of a comprehensive range of cut sheet sections and standard sheets from stock
- very little polishing required thanks to minimal peak-to-valley height (on bright rolled surfaces)
- maintaining exact tolerances supports accurate dimensions
- "endless" strips add to the efficiency of your processing machinery

AgosiWires|Rods|Profiles

Keep a high profile - with high-class end products

Whether annealed or hardened, round or D-section, or in a variety of other cross-sections - our wires, rods and profiles are an important prerequisite for high-quality end products.

Material

MATERIAL/ALLOY		colour	density g/cm³	hardness HV 5 recrystallised, annealed
333/75		deep yellow	10.9	105
375/27	S	red	11.3	100
376/60		deep yellow	11.0	110
585/40		red	13.1	130
585/90	S	deep yellow	13.0	130
585/100	S	rosé	13.2	140
585/200	S	yellow	13.6	175
585/260	S	yellow	13.7	160
585/300		light yellow	14.0	140
585/340		greenish yellow	13.8	120
585/415		pale yellow	14.3	40
750/5	S	red	15.1	160
750/20	S	red	15.0	150
750/40		red (5N)	15.2	160
750/90		rosé (4N)	15.3	140
750/130		deep yellow (3N)	15.4	140
750/150		light yellow (2N)	15.6	130
917/ -	S	rosé	17.6	90
917/53	S	yellow	17.9	55
375 S3		white 1,5% Pd	12.3	105
585 S		white 10% Pd	14.5	90
585 S2	S	white 14% Pd	14.4	130
585 M		white 19% Pd	14.5	160
590 H1	S*	white 10% Ni	12.8	150
750 S		white 10% Pd	16.0	100
750 A	S	white 10% Pd	15.7	160
750 U		white 12.5% Pd	16.0	130
750 CHC		white 13% Pd	15.7	160
750 S2		white 14% Pd	16.0	120
750 M		white 16% Pd	15.9	140
750 M1		white 21% Pd	16.4	95
750 H1	S*	white 10% Ni	14.8	230
750 H8		white 5% Ni	14.8	130
PdAg 950/20		grey	11.8	100
PtRu 600		grey	13.7	180
PtIr 800/200	S	grey	21.7	190
PtW 950		grey	21.3	150
PtRu 950		grey	20.7	130
PtPlus 953		grey	19.9	160
PtCu 953		grey	20.1	110
PtCo 950	S	grey	20.1	130

S = special alloy
** = alloy contains nickel and does not conform to standard DIN EN 1811:2011 on leaving factory*
Further alloys on request / Quality, centricity, straightness as agreed

MATERIAL/ALLOY		colour	density g/cm³	hardness HV 5 recrystallised, annealed
Ag 925		white	10.4	70
Ag 935		white	10.4	70
Ag 950	S	white	10.4	70
Ag 970		white	10.4	55
fine silver	Ag 4N		10.5	35
fine silver	Ag 3N7		10.5	35
fine gold	Au 99.99%		19.3	28
platinum	Pt 3N5		21.5	48
palladium	Pd 3N5		12.0	50

S = special alloy
Further alloys on request / Quality, centricity, straightness as agreed

Product

PRODUCT	diameter/ dimension mm	tolerances mm	on request	delivery form
wires, round	0.1 - 0.5 > 0.5 - 3.0 > 3.0 - 6.0	+0/-0.03 +0/-0.04 +0/-0.05	ø 0.05 - 0.1 and > 6 (up to max. 40 mm)	0.05 - 0.8 mm on spools 0.81 - 6.0 mm in rings > 6.0 mm as rods annealed or hardened
rods, round	0.5 - 3.0 > 3.0 - 6.0 > 6.0 - 10.0 > 10.0 - 18.0 > 18.0 - 20.0 > 20.0 - 30.0	+0 / -0.04 +0 / -0.05 +0/ -0.06 +0 / -0.07 +0 / -0.08 ± 0.2	ø > 30	drawn straight length standard 2 m hardened l-max 1.5 m
profiles acc. to customer specifications	1.0 - 3.0 > 3.0 - 6.0	+0 / -0.04 +0 / -0.05	dimensions < 1 mm and > 6 mm	proportion width/height = 2 to 1, other proportions on request annealed
wires, square	width 1.0 - 3.0 > 3.0 - 6.0 > 6.0 - 10.0 > 10.0 - 18.0 height 0.2 - 3.0 > 3.0 - 6.0 > 6.0 - 10.0 > 10.0 - 18.0	 ± 0.02 ± 0.03 ± 0.05 ± 0.1 ± 0.02 ± 0.03 ± 0.05 ± 0.1	dimensions > 18 mm and height < 1/2 width	on spools, annealed straightened as rod height ≥ 1/2 width, hard
rolled wire	2.0 / 3.0 4.0 / 5.0 / 6.0 8.0		diameter > 8 mm and intermediate diameters	in rings, annealed

Wires in special cross-sections on request.
Billets/continuous cast material: all dimensions and properties on request.





AgosiTubes

Precision pays

Our product range would not be complete without high-quality tubes. The precision and care exercised during their manufacture make them a suitable choice wherever accuracy and reliability are required. Whether drawn or hammered, seamless tubes with precision measurements and exemplary characteristics are suitable for a wide range of applications, for industrial production as well as in the goldsmith's workshop.

Material

MATERIAL/ALLOY		colour	density g/cm³	hardness HV 5 recrystallised, annealed
333/75		deep yellow	10.9	105
375/27	S	red	11.3	100
376/60		deep yellow	11.0	110
585/40		red	13.1	130
585/90	S	deep yellow	13.0	130
585/100	S	rosé	13.2	140
585/200	S	yellow	13.6	175
585/260		yellow	13.7	160
585/300	S	light yellow	14.0	140
585/340	S	greenish yellow	13.8	120
585/415	S	pale yellow	14.3	40
750/5	S	red	15.1	160
750/20		red	15.0	150
750/40		red (5N)	15.2	160
750/90	S	rosé (4N)	15.3	140
750/130		yellow (3N)	15.4	140
750/150		light yellow (2N)	15.6	130
917/53	S	yellow	17.9	55
375 S3	S	white 1.5% Pd	12.3	105
585 S	S	white 10% Pd	14.5	90
585 S2		white 14% Pd	14.4	130
585 M		white 19% Pd	14.5	160
590 H1	S*	white 10% Ni	12.8	150
750 S		white 10% Pd	16.0	100
750 U		white 12.5% Pd	16.0	130
750 CHC		white 13% Pd	15.7	160
750 M		white 16% Pd	15.9	140
750 M1		white 21% Pd	16.4	95
750 H1	S*	white 10% Ni	14.8	230
750 H8	S	white 5% Ni	14.8	130
PdAg 950/20		grey	11.8	100
PtRu 600		grey	13.7	180
PtW 950		grey	21.3	150
PtRu 950		grey	20.7	130
PtPlus 953		grey	19.9	160
PtCo 950	S	grey	20.1	130
PtCu 953	S	grey	20.1	110
Ag 925	S	white	10.4	70
Ag 935		white	10.4	70
Ag 950		white	10.4	70
Ag 970		white	10.4	55
fine silver	Ag 4N		10.5	35
fine silver	Ag 3N7		10.5	35

S = special alloy

** = alloy contains nickel and does not conform to standard DIN EN 1811:2011 on leaving factory*

Further alloys on request.

Product

PRODUCT	Aø outer diameter	Aø tolerance	wall thickness	tolerances
round tubes, seamless	0.9 - 6.0	±0.05 mm	0.175 - 0.5 mm 0.5 - 1.0 mm >1.0 - 2.0 mm	**±0.03 mm **±0.05 mm **±0.07 mm
	6.0 - 10.0	± 0.06 mm	0.2 - 0.5 mm 0.5 - 1.0 mm >1.0 - 2.0 mm	**±0.05 mm **±0.07 mm **±0.10 mm
	10.0 - 18.0	± 0.08 mm	0.3 - 1.0 mm >1.0 - 2.0 mm >2.0 - 4.0 mm	**±0.03 mm **±0.05 mm **±0.07 mm
	18.0 - 20.0	± 0.10 mm	0.3 - 1.0 mm >1.0 - 2.0 mm >2.0 - 4.0 mm	±0.05 mm ±0.07 mm ±0.10 mm
	***20.0 - 40.0	± 0.10 mm	2.0 - 6.0 mm	**±0.10 mm

*** Where the inner diameter = 2 x wall thickness, the tolerance for the wall thickness changes to approx. ± 0.05 mm depending on wall thickness*

Tubes with ratio 2 x wall thickness > inner diameter available following agreement

**** Material with inner diameter > 20 mm available following agreement*

		standard	on request
	Delivery hardness	hard	± 20HV
	Straightness	Ag: drawn straight Au: drawn straight	< 1 mm/m
	Material length	0.5 m / 1 m ± 10%	± 5 mm
	Weight	< 0.5 kg on request / tolerance ±10%	

Your benefits

- particularly suitable for CNC manufacturing
- excellent processing characteristics
- high-quality inner and outer surfaces require little polishing
- individual cross-sections and special alloys on request

AgosiTurnedParts | AgosiMilledParts

Where quality counts

Our qualified employees use the latest lathes and milling machines to develop and produce precision parts based on customer drawings, fulfilling demanding quality requirements.

Our range of machinery includes

- CNC lathe from 1-220 mm
- fixed headstock automatic lathes
- sliding headstock automatic lathe
- 3- and 5-axis milling machines

Materials

See tables:
AgosiSheets|Wires|Tubes

Your benefits

- high level of accuracy
- close tolerances
- improved surface quality
- savings in material

Our production facilities are designed for small-batch and large-scale production and process all common alloys.

Areas of application: jewellery and watch industry, writing utensil industry.





