



Precious metal semi-finished products

Technical alloys

Refining

Chemicals

Precious metal devices and One-off products

Parts

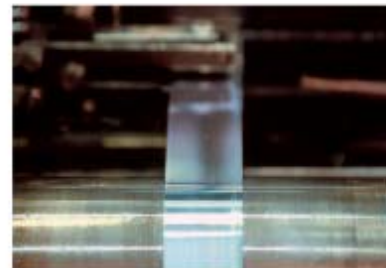
Description

SAXONIA Edelmetalle GmbH produces a wide range of semi-finished products.

Our customers are primarily manufacturers of electrical contact parts, switches and fuses for the electrical and electronics industries, as well as plant

construction and subcontractors to the chemical industry and electrical engineering.

We supply precious metal targets for thin-film technology, mostly used in optical data storage, electronics and glass surface coating.



Conductor and contact materials

Materials

Materials	Composition		Melting temperature / Melting range (°C)	Density (g/cm ³)
	Ag (percent by weight)	other elements		
Ag 9999 to Ag 999	99.99 to 99.9	-	961	10.5
AgCu (1 to 20%Cu)	99.0 to 80.0	Cu	780 ... 950	10.1 ... 10.4
AgCu 50	50.0	Cu	780 ... 865	9.7
AgCu2Ni 0.15	97.85	Cu, Ni	940	10.4
AgCu3Ni 0.15	96.85	Cu, Ni	910 ... 930	10.4
AgNi 0.15	99.85	Ni	961	10.5
AgNi 90/10	90	Ni	961	10.3
AgNi 85/15	85	Ni	961	10.2
AgNi 80/20	80	Ni	961	10.1

Delivery forms

Materials Production method	Flat products				Round products	Profiles	
	Sheets	Strips	Bands	Foils	Wires	Flat wires	Profile wires
Melting metallurgy							
Ag 9999 to Ag 999	■	■	■	■	■	■	■
AgNi 0.15	■	■	■	■	■	■	■
AgCu (1 to 20% Cu)	■	■	■	■	■	■	■
AgCu 50					■	■	■
Sintering metallurgy							
AgNi 90/10					■	■	■
AgNi 85/15					■	■	■
AgNi 80/20					■	■	■

Because we melt the metals in our own facility, we are also able to produce and process other alloys and material combinations as desired.

Sizes

Flat products	Thickness (mm)	Width (mm)	Length (mm)
Sheets	0.2 ... 2.5	100 ... 500	100 ... 1200
Sheets	0.2 ... 5.0	100 ... 350	100 ... 1200
Strips	0.2 ... 5.0	10 ... 350	100 ... 1000
Bands	0.1 ... 0.8	1.0 ... 110	
Foils	0.02 ... 0.1	1.0 ... 110	

Rund products	Diameter (mm)
Round wires	0.3 ... 5.5
Rods	5.0 ... 20.0

Flat wires and Profiles

Sizes, forms and tolerances subject to agreement.

Fusible elements in electrical fuses

Materials and delivery forms

Materials	Flat products			Round products Round wires	Profiles Flat wires
	Wide strips	Narrow strips	Foils		
Ag 9999 to Ag 999	■	■	■	■	■
AgCu 50				■	■
Cu-ETP / Cu-OF	■	■	■	■	■
Ag / Cu / Ag (electroplated)	■	■	■	■	■

Sizes

Flat products	Thickness (mm)	Width (mm)
Wide strips	0.1 ... 0.8	20 ... 110
Narrow strips	0.1 ... 0.8	1.0 ... 20
Foils	0.02 ... 0.1	1.0 ... 110

Rund products	Diameter (mm)
Round wires	0.3 ... 5.5

Profiles

Flat wires - Sizes and tolerances subject to agreement.

Targets and evaporation materials

Materials and delivery forms

Materials	Sheets	Discs	Wires
Ag 9999 to Ag 999	■	■	■
Au 9999	■	■	■

Materials	Sheets	Discs	Wires
Pt 9995	■	■	■
Pd 9995	■	■	

Manufacturing of targets is only carried out to customer specification.

Management of precious metals and services

- Refining of wastes containing precious metals
- Holding and administration of metal accounts
- Physical provision of the precious metals in commercially usual purity
- Procurement of precious metals
- Price information
- Collection of customers materials

Areas of business



Precious metal refining



Precious metal chemicals



Precious metal semi-finished products



Precious metal devices and One-off products



Contact-, precision stamp- and bent parts

Development / Laboratories

Chemical laboratory
Metallurgical laboratory
Materials laboratory
College of technology

Quality standards / certificates

Quality management - DIN EN ISO 9001
Environmental management - DIN EN ISO 14001
Plant safety management - 12. BImSchV, Appendix III
Occupational health and safety management - OHSAS 18001
Measurement management - DIN EN ISO 10012

SAXONIA®

SAXONIA Edelmetalle GmbH

Erzstrasse 5 • D - 09633 Halsbruecke / Germany
Telephone: +49 (0)37 31 - 78 20 • Fax: +49 (0)37 31 - 78 24 30
Web: www.saxonia.de • E-Mail: info@saxonia.de