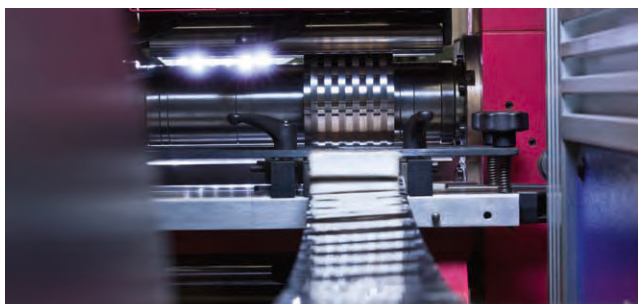




TECHNICAL
ALLOYS

SAXONIA[®]
EDELMETALLE

SAXONIA offers a wide range of semi-finished products. Our product portfolio ranges from individual melting products, tubes, rods, sheets and wires to anodes, targets, precision strips, milled and turned parts. Our high-quality semi-finished products are used as technical materials in many industrial sectors.



In particular, our customers include manufacturers of electronic components, switches and fuses for electrical engineering and electronics, as well as plant manufacturers and suppliers to the chemicals and energy technology industries. We offer precious metal targets for thin-film technology mainly used in optical data storage, electronics and glass coating.



PRODUCTS

Flat products

- /// Sheets
- /// Tapes
- /// Strips
- /// Foils

Targets and evaporation materials

Round products

- /// Wires
- /// Bars
- /// Tubes

Anodes, dogbones and clippings

Profiles

- /// Flat wires
- /// Profile wires

Milled parts and turned parts

Melting products

- /// Plates
- /// Anodes

Other products are available upon request.

MATERIALS

Materials	Precious metal content in mass%	other elements	Melting temp. / range in ° C	Density in g/cm ³
Ag 9999 ... Ag 999	99.99 ... 99,9	–	962	10.5
AgCu	99.0 ... 20	Cu	779 ... 990	10.1 ... 9.2
AgCu 50	50.0	Cu	779 ... 865	9.7
AgCu1,8Ni0,2	98	Cu, Ni	940	10.4
AgCu3,8Ni0,15	96.85	Cu, Ni	910 ... 930	10.4
AgNi 0,15	99.85	Ni	960	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

Other materials are available upon request.

DIMENSIONS

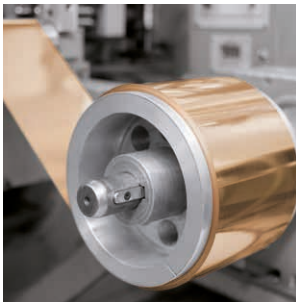
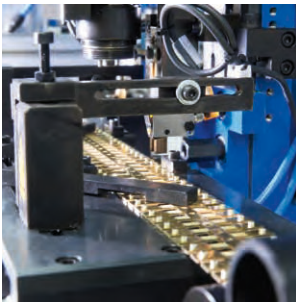
Flat products	Thickness mm	Width mm	Length mm
Sheets	0.2 ... 5.0	100 ... 500	100 ... 1000
Tapes	0.2 ... 5.0	10 ... 350	100 ... 1000
Strips	0.1 ... 0.8	1.0 ... 100	–
Foils	0.05 ... 0.1	1.0 ... 100	–

Round products	Diameter mm
Round wires	0.3 ... 5.5
Bars	5.0 ... 20.0

/ CONDUCTOR AND CONTACT MATERIALS

SAXONIA manufactures conductor and contact materials for a variety of electrical and electrotechnical components. The material chosen is crucial for its reliability and lifespan. Therefore, for every

application there is a variety of available materials that guarantee the required electrical and thermal conductivity values, strength properties and technological properties for processing.



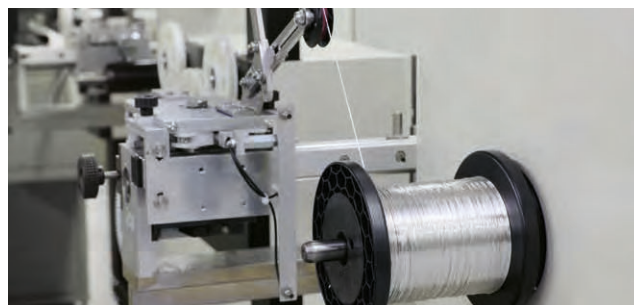
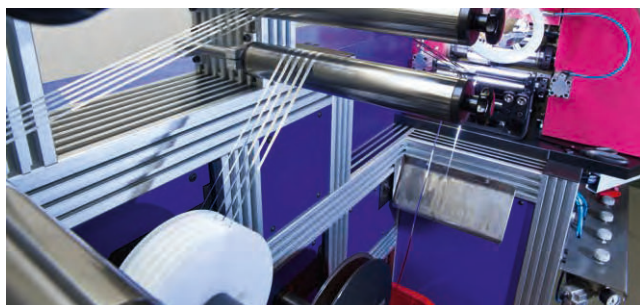
PRODUCT TYPES

Manufacturing process Materials	Flat products				Round products Wires	Profiles	
	Sheets	Tapes	Strips	Foils		Flat wires	Profile wires
Metallurgical materials							
Ag 9999 ... Ag 999	■	■	■	■	■	■	■
AgNi 0,15	■	■	■	■	■	■	■
AgCu (1 bis 20% Cu)	■	■	■	■	■	■	■
AgCu 50					■	■	■
Sintered materials							
AgNi 90/10					■	■	■
AgNi 85/15					■	■	■
AgNi 80/20					■	■	■

Other materials, combinations and dimensions are available upon request.

SAXONIA supplies fuse elements for fuses in low- and high-current applications. As a long-standing partner of the electrotechnological

industry and renowned fuse manufacturers, our high-tech products meet all the required standards.



PRODUCT TYPES

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

DIMENSIONS

Flat products	Thickness in mm	Width in 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

Round products	Diameter in mm
Round wires	0.3 ... 5.5

Profiles	
Flat wires	Dimensions and tolerance by arrangement.

PRECIOUS METAL MANAGEMENT / SERVICES

- / Fixing of precious metal
- / Holding and administration of metal accounts
- / Procurement of precious metals
- / Price information

- / Refining of wastes containing precious metal
- / Insured transport and collection of customer material
- / Cleaning of shields and masks
- / Chemical laboratory and materials testing laboratory

/ TARGETS AND EVAPORATION MATERIALS

SAXONIA produces targets and vacuum evaporation materials from precious metals in thin-film technology for various cleanroom and vacuum applications: these include optical data storage, electronics, glass coating (low-E), photovoltaics, foil coating and mirror production.

Our targets can also be used as consumable material for sputtering in magnetrons. Here the coated object is given special wave-dependent (for example, heat-reflective or translucent) properties.



Targets	
Materials	Ag / Pd / Au / AgPd / Pt / AgAu (Melted metallurgical, high-purity)
Moulds	As per drawing
Dimensions	/ Segmented large targets up to 4m: thickness up to 35 mm panel length to 1.5 m / round targets
Casting	Various grades according to customer specifications
Quality	Surface milled, tolerances according to drawing

SERVICE

- / Refining of used targets and sputtering waste
- / Joint target development and optimisation
- / Just-in-time delivery
- / Direct transportation and insurance





ADDITIONAL BUSINESS FIELDS



FOUR COMPANIES - ONE STRONG PARTNER.

SAXONIA

Technical Materials GmbH
Hanau/Hesse
www.saxonia-tm.de

WIELAND

Edelmetalle GmbH
Pforzheim/Baden-Württemberg
www.wieland-edelmetalle.de

SAXONIA

Edelmetalle GmbH
Halsbrücke/Saxony
www.saxonia.de

Italbras S.p.A.

Vicenza/Italy
www.italbras.it

SAXONIA[®]
E D E L M E T A L L E

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