THE WORLD OF PRECIOUS METALS



Certified according to the standards:

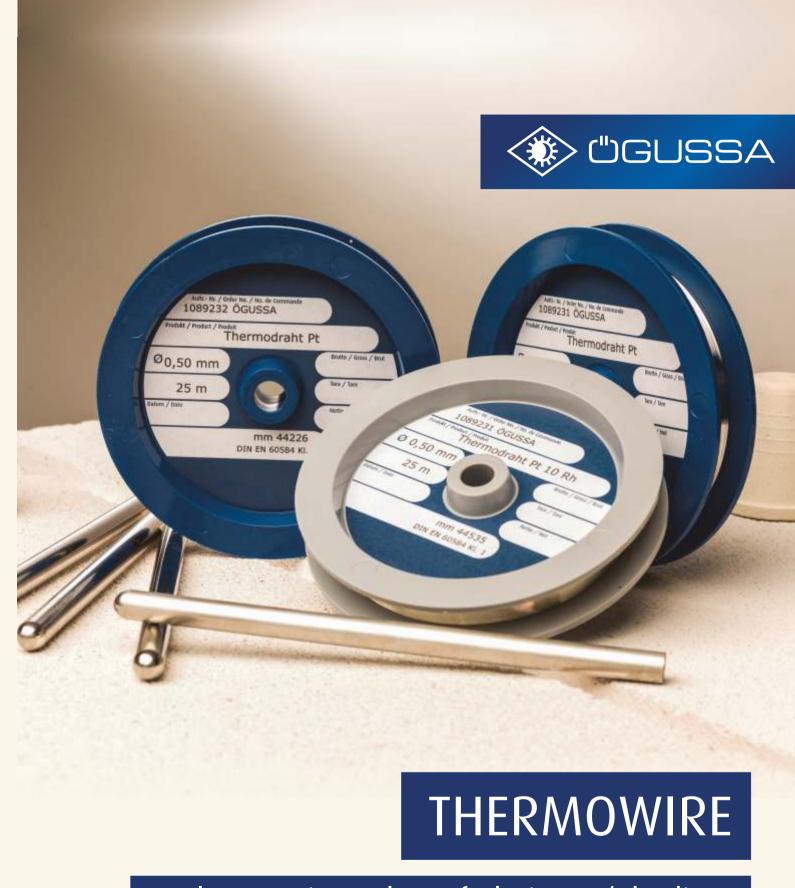
ISO 9001 (Quality)
ISO 14001 (Environmental)
ISO 45001 (Safety & healthcare management)
ISO 50001 (Energy management)
Responsible Care (Health, safety and environment)
RJC Code of Practices (Ethical, social and environmentally friendly business practices)

Silber-Scheideanstalt Ges.m.b.H.

Liesinger-Flur-Gasse 4 1230 Vienna t +43 1 86646 -4201 to -4211 platin@oegussa.at







and Protective Tubes of Platinum/Rhodium

Thermowire and Protective Tubes made of Platinum/Rhodium

Type R, S and B thermocouple wires are available in the required length or prefabricated in lengths of 25 and 50 meters per spool. We also offer ready-to-install thermocouples that are connected with a fusible bead. Standard diameters of 0.35 and 0.50 mm are available promptly from stock. Special diameters are manufactured to order at short notice according to customer requirements. Each delivery includes a quality certificate that guarantees the thermoelectric voltage in accordance with EN 60584 -1 2014/15 and ASTM E 230.

Protective tubes made of FKS (fine-grain stabilized) platinum are the cost-effective alternative to the common platinum-rhodium alloys. Thanks to precise manufacturing techniques, it is possible to reduce the wall thicknesses down to 0.10 mm depending on the diameter and length. This saves the use of valuable precious metals and resources.

Damaged protective tubes and deviating thermocouple wires outside the measurement tolerance are recycled at the Vienna production site. New precious metal alloys for a wide range of applications and products are created from the recovered materials in their purest form, examples of which are listed in the product range.

Material Diameter	grs/m at 20°C	Working Temperature Range Continuous Short-Term		ohm/m
Thermowire Pt10%Rh, Type S 0.35 mm 0.50 mm	1.92 3.92	1300°C 1300°C	1600°C 1600°C	2.01 0.98
Thermowire Pt13%Rh, Type R 0.35 mm 0.50 mm	1.88 3.84	1300°C 1300°C	1600°C 1600°C	2.05 1.01
Thermowire Pt für Type R + S 0.35 mm 0.50 mm	2.06 4.20	1300°C 1300°C	1600°C 1600°C	1.11 0.54
Thermowire Pt30%Rh, Type B 0.35 mm 0.50 mm	1.70 3.47	1500°C 1500°C	1700°C 1700°C	2.19 1.07
Thermowire Pt6%Rh, Type B 0.35 mm 0.50 mm	1.98 4.04	1500°C 1500°C	1700°C 1700°C	1.83 0.94

Thermoelectric voltage in accordance with EN 60584 -1 2014/15 and ASTM E 230

ТҮРЕ	CLASS 1	CLASS 2	CLASS 3
Type R and S Temperature range Limiting deviation	0°C - 1600°C ± 1.0°C or ± [1.0+0.003 ·(t-1100)]°C	0°C - 1600°C ± 1.5°C or ± 0.0025 · t	- -
Type B Temperature range Limiting deviation	-	600°C - 1700°C ± 1.5°C or ± 0.0025 · t	600°C - 1700°C ± 4.0°C or ± 0.005 · t

Ögussa The World of Precious Metals

With around 160 employees, Ögussa is Austria's market leader in precious metal processing and recycling. As part of the globally active Umicore Group, we focus on application areas in which our combined materials expertise in metal chemistry and metallurgy makes the decisive difference for our customers. The primary goal of creating sustainable value is based on the endeavor to develop, produce and recycle materials in such a way that they live up to our claim: "Materials for a better life".



Product Range · Variety in Detail

Laboratory equipment made of platinum for all common

XRF fusion devices. Electrodes, aperture plates, bushings and components for the glass industry

Sheath wires in the combinations PtNi, CuAg, CuAu for sensor and medical technology

Bar material for automatic lathes

Wires and fine wires with diameters up to 25µm

Wire pins in various diameters and lengths

Web- and knitting nets for catalysts made of silver and platinum and their alloys

Strips, sheets and foils up to 25µm

Stamped and turned parts made from platinum, palladium, gold and silver in different alloy combinations or made of fine metals of the highest purity

PVD targets made from high-purity platinum, gold and silver >999.99

Electroplating decorative and technical coatings in gold, silver and rhodium

Precious metal recycling for Au, Ag, Pt, Pd, Ir and Rh

Precious metal electrolytes

Gold and silver bars

Precious metal trading



Imprint: Österreichische Gold- und Silber-Scheideanstalt Ges.mb.H. Liesinger-Flur-Gasse 4, 1230 Vienna Pictures: Ögussa, State: May 2024