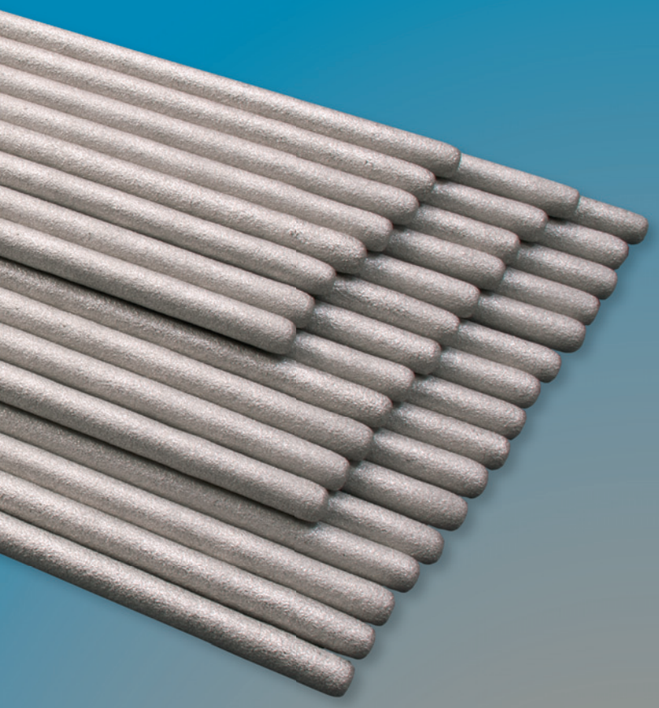
SAFINA a.s.

SAFINA, a.s. enforces EN ISO 9001:2000 and EN ISO 14001:2004 certified standards. Extraordinary emphasis is placed on product quality. Precision, correctness and reliability of manufacturing processes and analytical results are ensured by our certified quality control system. SAFINA, a.s. also holds the European conformity sign CE granted by Lloyd's Register Quality Assurance Ltd. pursuant to the standard EN ISO 13485.



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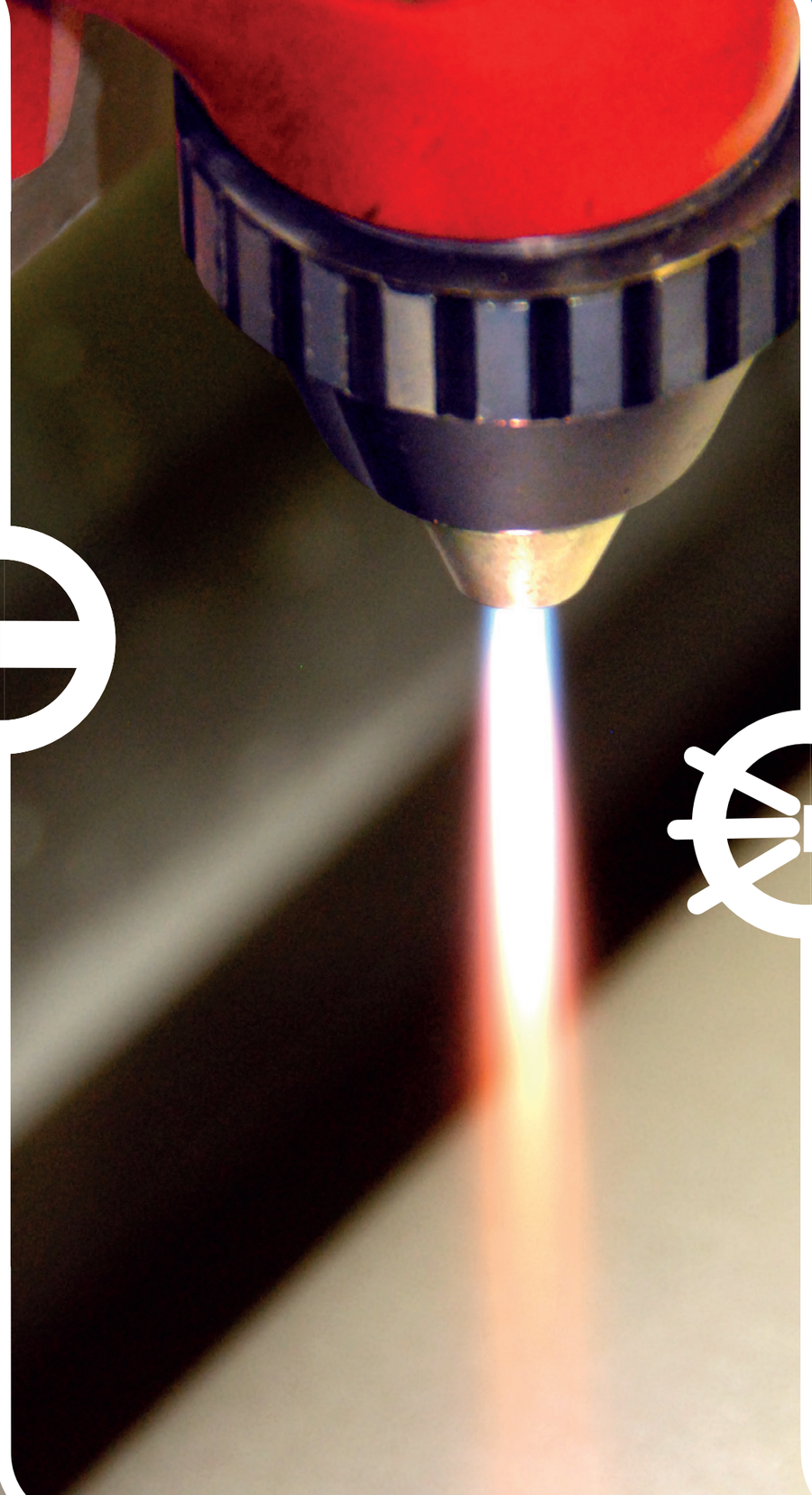
PRECIOUS METALS PROCESSING AND RECYCLING



THERMAL SPRAYED PLATINUM

PLATINUM COATING

THERMAL SPRAYED
PLATINUM
Platinum Coating

Assortment

SAFINA is a traditional manufacturer of precious metal products with over 150 years' experience. Renowned for its extraordinary accuracy and reliability at each stage of the manufacturing process, SAFINA offers its customers exceptional services.

As a producer of its own feedstock, SAFINA´s advanced expertise in thermal spraying of precious metals are concentrated on continuous development of its own proprietary spraying technology.

The technology of platinum coating enables the application of pure and alloyed metal layers according to the customer's request in effective thicknesses from 200 mm for standard metal coating up to 300 mm (and more) for extremely exposed components or parts of components. Metal coating can also be applied locally according to customer's drawing documentation.

Advantages

Platinum coated partitions and blocks prolong production periods of the aggregate and eliminate damages to the structure of the materials in the most exposed parts of the furnace.
Prolonged service life significantly reduces the interruptions in production that are due to the necessity of frequent replacements, improving cost and production time efficiency.
Other possibilities of using the technology of platinum coating include application on devices that are exposed to a combination of aggressive conditions during melting and processing – e.g. bubble jets and stones, melting pots for melting aggressive glass and others. This improvement leads to a significant increase in quality of production and prolonged service life of the entire aggregate.

Applications

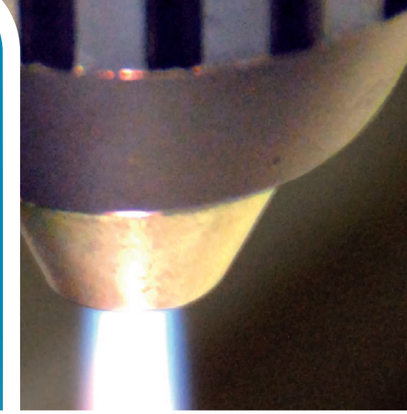
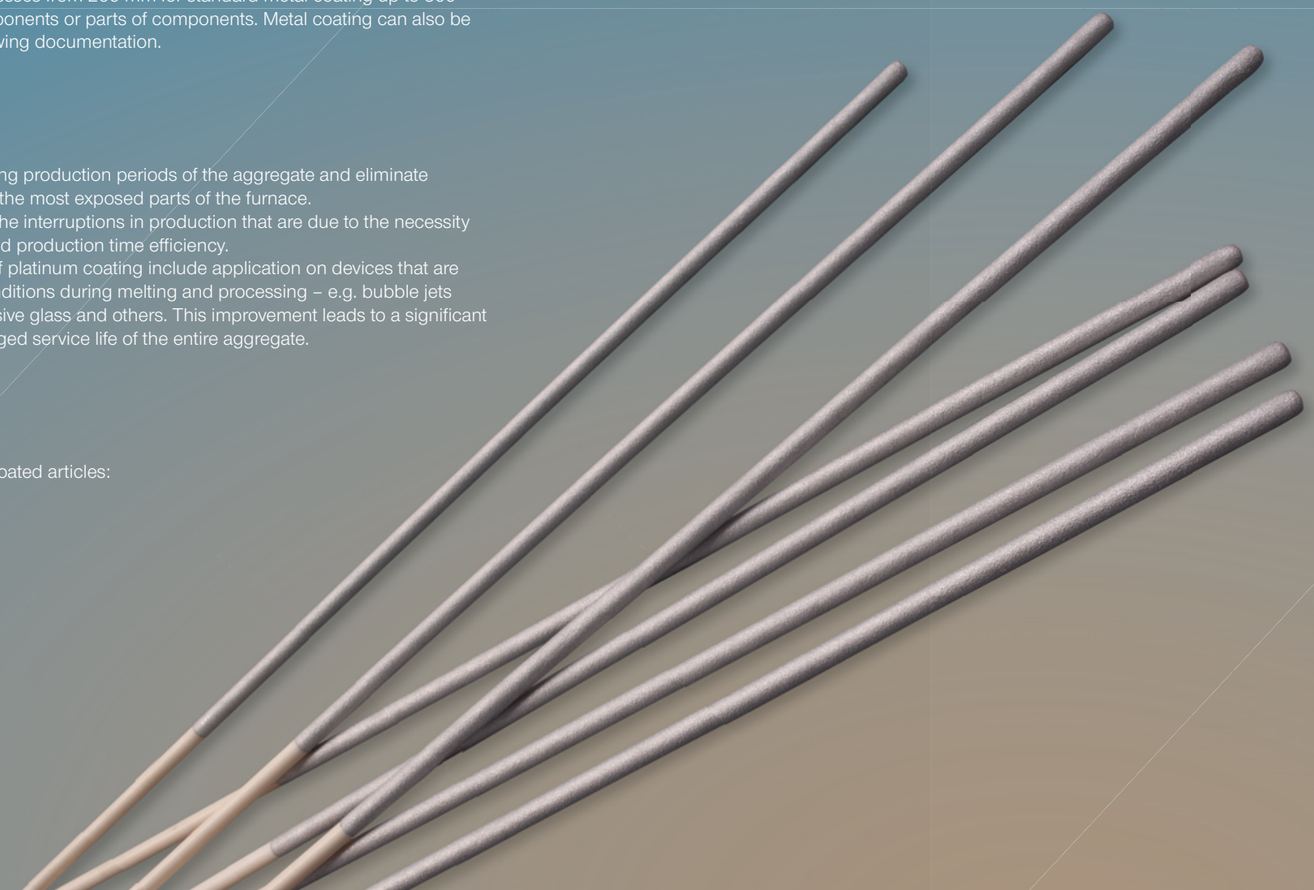
Typical industrial applications for platinum coated articles:

- Glass industry
- Chemical industry
- Sensor industry - thermocouples

Properties

Properties of platinum coated products strongly depend on the purpose of their use.

Typical properties		
Coating thickness	200 - 500	µm
Coating material	Pt	
	PtRh10	

Recycling

SAFINA offers not only the primary coating process, but also its own recycling of spent products. This "one stop shop" ensures customers another value added and beneficial partnership throughout the whole cycle by reprocessing spent materials.