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PRODUCTS OR MACHINERY

Johnson Matthey is the only global fabricator offering a complete range of complementing PGM technologies for glass manufacturers.

ACT (Advanced Coating Technology)

ACT (Advanced Coating Technology) is our proven technology for ceramic protection, with coating thickness from 200 to 500 microns in platinum and 10% rhodium/platinum. This technology applies to all types of glass, including soda lime, crystal, borosilicate and opal glass.

Sintered ceramics such as zircon mullite and sillimanite are coated using a mix of flame and plasma deposition. They could be supplied as single items, or sets of forehearth and feeder consumables. In critical furnace areas, such as throats, ACT coatings are provided on fused cast ceramic blocks.

Fabrications & Linings, ZGS Platinum/Rhodium Alloys and Iridium

Fabrications are self-supporting parts or linings that are made of welded sheets of platinum/rhodium alloys. Johnson Matthey supplies sheet, tubes and more complex fabrications such as stirrers, feeder chambers, refiners or spout bowls.

For the most demanding applications, the use of platinum/rhodium alloys with dispersed zirconia particles (ZGS) can give increased mechanical strength and durability. Iridium fabrications or linings can be used at temperatures up to 2000°C in air. It has higher mechanical strength than ZGS platinum/rhodium alloys but may require some oxidation protection.

Johnson Matthey is market leader in the supply of iridium crucibles and other associated components used in the production of metal oxide single crystals (sapphire, YAG...).

Thermocouple Wire and Assemblies

Johnson Matthey is the market leader for precious metal thermocouple wire and assemblies. Thermocouple assemblies can be protected with precious metal, using a drawn tube with one end closed, or an ACT coating on an alumina sheath.

Precious Metal Recovery

Johnson Matthey offers full PGM recovery with typical metal returns of greater than 95%* for ACT coatings and greater than 98%* for all fabrications and linings.

ACT is a trademark of the Johnson Matthey Group of companies.

** Based on estimated returned weight*

Company Profile of Johnson Matthey - Noble Metals

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