NOBLE METALS



Danner, ACT[®] coated with platinum and then fully polished

ACT[®] Platinum Coated Ceramics

Glass type	All types, including the most corrosive
Benefits	100% shape retention for the lifetime of the coating

Design

Full coating	Extending above the glass line to cover the complete glass contact area
Coating thickness	Between 200 and 400 microns
Alloys	Platinum (up to 1350°C) 10%RhPt (up to 1600°C)
Typical metal return	Greater than 95%*
* Based on estimated returned	ed weight

ACT[®] Specialist Products For the glass industry

- **ACT[®] Danner Sleeve and Ribbon Block**
- ACT[®] Pin Stirrers, Lip Stones and Tweel
- **ACT[®] Feeder Chamber and Screw Plunger**

Competition is fierce in the special glass industry. The objective is to achieve the best quality product, which will deliver the optimum profitability. Performance of consumable ceramics has improved, but this will never be enough for manufacturers aiming for the highest quality standards.

ACT[®] platinum coated ceramics consist of a thin layer of platinum or 10% rhodium/platinum applied to the surface of the ceramic. Thickness varies between 200 and 400 microns. The coating gives complete corrosion resistance against attack of molten glass. It provides 100% shape retention of the substrate for the lifetime of the coating. More importantly, it improves the final product quality. Less ceramic particles dissolve into the finished product and the glass is not in contact with ceramic surfaces in the critical zone prior to forming.

Sintered ceramics such as zircon mullite and sillimanite are coated using a mix of flame and plasma deposition. They can be supplied as single items or sets of consumables.

The coating process is flexible. Complex shapes are protected and variable thickness is available. ACT[®] coatings provide protection at the glass line and against corrosive vapour condensates. ACT[®] coatings can be polished for exceptional glass quality requirements. Electrical suppression, as well as integrated thermocouples, is available on demand. Direct heating is also an option.

This technology applies to all types of glass, including the most corrosive.

Johnson Matthey offers full precious metal recovery with typical metal returns of greater than $95\%^*$ for all ACT[®] coatings.

JMC Johnson Matthey Noble Metals

NOBLE METALS

ACT[®] Specialist Products For the glass industry



Feeder chamber, ACT[®] coated with platinum



Ribbon block, ACT[®] coated with a platinum/rhodium alloy



Stirring plunger, ACT[®] coated with platinum



Tweel, ACT[®] coated with platinum



Lip stones, ACT[®] coated with a platinum/rhodium alloy

If you require more information on Johnson Matthey Noble Metals products please contact our technical support team.

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