

AI-1025

Description and Applications

AI-1025 is a chrome oxide powder used for flame spray or plasma spraying applications. The sprayed coatings are designed to resist abrasive wear because the hard and dense characteristics of the coatings are compatible with operating temperatures up to a maximum of 540°C. The anti-abrasive wear properties are significantly improved because of the relatively smooth as sprayed surfaces.

Applications include: Restoration of worn surfaces by spraying with **AI-1025** is used for a broad spectrum of applications. When using this product in applications in corrosive chemical processes, providing the correct sealant is applied; the maximum operating temperature is 205°C. It also has application in the textile industry on machines where components come into contact with fine threads and fibres.

Other applications are for the reduction of wear on exhaust fans, pump seals, wear rings and the minimisation of cavitation on items such as engine cylinder liners.

Typical Weldmetal Analysis

FeO	SiO ₂	Cr ₂ O ₃
1.00 Max	0.25 Max	99.0 Min (99.9 Typ.)

Mechanical Properties of Weldmetal

	As Welded
Grain Size Range	-45 +22 Microns
Hardness	65 HRc
Bond Strength	17.2 MPa
Coating Weight	0.49kg/m ² /0.1mm
Substrate	90°C-120°C

The surface to be sprayed must be thoroughly cleaned and grit blasted prior to spraying. Preheat from 90°C to 120°C to eliminate the formation of condensate.

Disclaimer

All figures in this datasheet should be considered indicative only. No guarantee is made as to their accuracy.

All figures subject to change without notice. Batch analysis is available for all products sold. Should you require any further information, please contact us at sales@alloysint.com.au



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