

TECHNICAL DATA

DELORO™ 55 ALLOY

DELORO™ NICKEL-BASED ALLOYS for hardfacing exhibit excellent corrosion, abrasion, and wear-resistance (up to 600°C), and have a wide melting range allowing them especially to be applied by the spray & fuse and powder welding processes. The alloys are machinable, except for Deloro 60, which can be ground. These nickel, chromium, boron hardfacing alloys produce very hard dense corrosion resistant coatings with superior fusing characteristics.

DELORO™ 55 has excellent resistance to abrasion and good deposition characteristics. It is intermediate between Deloro 50 and Deloro 60 as regards toughness and hardness. This gas atomized powder has highly spherical particles with very low gas content. Known applications e.g. are glass forming plungers and extrusion screws.

NOMINAL CHEMICAL COMPOSITION (MASS%)

ALLOY	Ni	Cr	C	Si	B	Fe	Others
Deloro™ 55	Bal.	12,5	0,5	4,0	2,7	4,0	-

PHYSICAL PROPERTIES

ALLOY	Hardness	Density	Melting Range
Deloro™ 55	53 - 58 HRC	~ 7,95 g/cm ³	975 – 1100 °C

PRODUCT FORMS

Consumables for Cladding / Hardfacing				
Powder	PTA Cladding	Laser Cladding	Powder Welding	Spray & Fuse

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