

TECHNICAL DATA

DELORO™ 50 ALLOY

DELORO™ NICKEL-BASED ALLOYS 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.

DELORO™ 50 is a hardfacing alloy for application by welding and the spray-fuse and powder-weld processes. Deloro™ 50 is machinable, and produces very hard dense corrosion resistant coatings with superior fusing characteristics. Should be considered where mild impact is possible, as it has lower crack sensitivity than Deloro™ 60. This is necessarily achieved by loss of some abrasion resistance. Hot hardness maintained to approximately 400°C (750°F). Used on extruder screw flights, wear rings, bearings, camshafts and diesel engine valve facings. Used to spray and fuse glass-forming plungers when high hardness is required

NOMINAL CHEMICAL COMPOSITION (MASS%)

ALLOY	Ni	Cr	C	Si	B	Fe	Others
Deloro™ 50	Bal.	10,5	0,45	4,0	2,0	3,0	-

PHYSICAL PROPERTIES

ALLOY	Hardness	Density	Melting Range
Deloro™ 50	48 – 55 HRC	8,16 g/cm ³	980 – 1.060 °C

PRODUCT FORMS

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

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