

TECHNICAL DATA

DELORO™ 22 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™ 22 is a pre-alloyed gas atomized nickel based powder which is used primarily for the local repair and hardfacing of glass forming molds. It can also be used as a tough build-up alloy for the edges of cast iron and steel components. It is typically deposited as a machinable, non-magnetic spray-fuse (SF) or powder weld deposited overlay. It is similar to Deloro™ 25, but is slightly softer, and is easily finished by hand. Like the other DELORO™ nickel base alloys, its wear resistance is mainly due to the presence of hard boride and silicide phases, and it retains its properties up to about 315°C. Because of its relatively low melting point it is easily fused to form a smooth hard-wearing surface.

NOMINAL CHEMICAL COMPOSITION (MASS%)

ALLOY	Ni	Cr	C	Si	B	Fe	Others
Deloro™ 22	Bal.	< 1,0	<0,05	2,5	1,4	<0,8	-

PHYSICAL PROPERTIES

ALLOY	Hardness	Density	Melting Range
Deloro™ 22	17 - 23 HRC	~ 8,50 g/cm ³	~ 1070 – 1160 °C

PRODUCT FORMS

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

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