

DELORO™ 15 ALLOY

TECHNICAL DATA

NOMINAL COMPOSITION (MASS %) AND PHYSICAL PROPERTIES

Ni	Cr	Si	B	C	Fe	Other	Hardness	Melting Range
Base	—	2.0	1.1	<0.05	<1.0	20% Cu	180 – 235 HV	1005 – 1080°C 1840 – 1970°F

Deloro™ 15 is a pre-alloyed gas atomized nickel-based powder which is used primarily for the local repair of cast iron glass forming molds. It has excellent weld characteristics and is a good color match.

Deloro™ 15 is typically deposited as a machinable, non-magnetic powder weld or spray-fuse (SF) deposited overlay. The fusing temperature is 1005 – 1050°C (1840 – 1920°F).

Like the other **Deloro™** nickel-based 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 (600°F). Because of its low melting point it is easily fused to form a smooth hard-wearing surface.

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