

DELORO® 15 ALLOY

TECHNICAL DATA

Nominal Composition (mass %) and Physical Properties

Ni	Cr	Si	B	C	Fe	Others	Hardness
Base	-	2.0	1.1	<0.05	<1.0	20% Cu	180-235 HV

Melting Range	1005 - 1080° C	1840 - 1970° F
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DELORO® 15 is a pre-alloyed gas atomised 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 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 (600°F). Because of its low melting point it is easily fused to form a smooth hard-wearing surface.

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