

Nominal Composition (mass %) and Physical Properties

Ni	Cr	Si	B	C	Fe	Others
Base	-	2.7	1.7	0.05	<1.0	-

Hardness	260-310 HV	22-28 HRC
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Melting Range	1060-1110° C	1940-2130° F
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Deposit Density	8.49 g.cm ⁻³	0.307 lb/in ³
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DELORO® 25 is a pre-alloyed gas atomised nickel based powder which is used primarily for the local repair and hardfacing of glass forming molds, and in the manufacture of down-hole stabilizers in the Oil & Gas industry.

DELORO® 25 is typically deposited as a machinable, non-magnetic spray-fuse (SF) or powder weld deposited overlay. It is similar to Deloro® 22, but is slightly harder and more fluid.

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 relatively low melting point it is easily fused to form a smooth hard-wearing surface.

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