

## Kennametal Stellite Deloro® 15 Nickel Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

**Material Notes:**

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 to 1050°C (1840 to 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 hardwearing surface. Information provided by Kennametal Stellite®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kennametal-Stellite-Deloro-15-Nickel-Alloy.php](http://www.lookpolymers.com/polymer_Kennametal-Stellite-Deloro-15-Nickel-Alloy.php)

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	180 - 230	180 - 230	

Thermal Properties	Metric	English	Comments
Melting Point	1005 - 1080 °C	1841 - 1980 °F	
Solidus	1005 °C	1841 °F	
Liquidus	1080 °C	1980 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	1.1 %	1.1 %	
Carbon, C	<= 0.050 %	<= 0.050 %	
Copper, Cu	20 %	20 %	
Iron, Fe	0.50 %	0.50 %	
Nickel, Ni	>= 76.35 %	>= 76.35 %	as balance
Silicon, Si	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Application Technique	Spray-fuse & powder welding	

## Contact Songhan Plastic Technology Co.,Ltd.

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