

Kennametal Stellite Deloro® 22 Nickel Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

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. Deloro® 22 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 (600°F). Because of its relatively low melting point it is easily fused to form a smooth hard-wearing surface. Information provided by Kennametal Stellite®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kennametal-Stellite-Deloro-22-Nickel-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.49 g/cc	0.307 lb/in ³	deposit density

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	18 - 24	18 - 24	
Hardness, Vickers	200 - 260	200 - 260	

Thermal Properties	Metric	English	Comments
Melting Point	1070 - 1160 °C	1960 - 2120 °F	
Solidus	1070 °C	1960 °F	
Liquidus	1160 °C	2120 °F	

Component Elements Properties	Metric	English	Comments
Boron, B	1.4 %	1.4 %	
Carbon, C	<= 0.050 %	<= 0.050 %	
Iron, Fe	<= 1.0 %	<= 1.0 %	
Nickel, Ni	>= 95.05 %	>= 95.05 %	as balance
Silicon, Si	2.5 %	2.5 %	

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

Descriptive Properties	Value	Comments
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