

## Kennametal Stellite Stellite® 31 PM cast aged 8 hours at 802°C air cooled

Category : Metal , Nonferrous Metal , Cobalt Alloy , Superalloy

### Material Notes:

Typical applications include vane plugs, fuel metering pins, spacer bushings, ball bearing blanks, race bearing blanks, diesel engine exhaust, fluid valve seats, saw cutter inserts, miscellaneous wear parts. Data provided by the manufacturer, Deloro Stellite Inc. Product of former Deloro Stellite Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kennametal-Stellite-Stellite-31-PM-cast-aged-8-hours-at-802C-air-cooled.php](http://www.lookpolymers.com/polymer_Kennametal-Stellite-Stellite-31-PM-cast-aged-8-hours-at-802C-air-cooled.php)

Physical Properties	Metric	English	Comments
Density	8.45 g/cc	0.305 lb/in <sup>3</sup>	P/M (98%)
	8.61 g/cc	0.311 lb/in <sup>3</sup>	Theoretical

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	842 MPa	122000 psi	
Tensile Strength, Yield	662 MPa @Strain 0.200 %	96000 psi @Strain 0.200 %	
Elongation at Break	2.0 %	2.0 %	in 25.4 mm

Thermal Properties	Metric	English	Comments
CTE, linear	14.1 µm/m-°C @Temperature 21.0 - 316 °C	7.83 µin/in-°F @Temperature 69.8 - 601 °F	
	14.5 µm/m-°C @Temperature 21.0 - 427 °C	8.06 µin/in-°F @Temperature 69.8 - 801 °F	
	15.1 µm/m-°C @Temperature 21.0 - 538 °C	8.39 µin/in-°F @Temperature 69.8 - 1000 °F	
	15.7 µm/m-°C @Temperature 21.1 - 649 °C	8.72 µin/in-°F @Temperature 70.0 - 1200 °F	
	16.5 µm/m-°C @Temperature 21.1 - 816 °C	9.17 µin/in-°F @Temperature 70.0 - 1500 °F	
	16.6 µm/m-°C	9.22 µin/in-°F	

Thermal Properties	Metric	English	Comments
	@ Temperature 21.1 - 871 °C	@ Temperature 70.0 - 1600 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.50 %	0.50 %	
Chromium, Cr	25.5 %	25.5 %	
Cobalt, Co	50 %	50 %	As remainder
Iron, Fe	<= 2.0 %	<= 2.0 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Nickel, Ni	10.5 %	10.5 %	
Other	<= 2.0 %	<= 2.0 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.040 %	<= 0.040 %	
Tungsten, W	7.5 %	7.5 %	

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