

Kennametal Stellite Stellite® 6K 1.6 mm thick sheet

Category : Metal , Nonferrous Metal , Cobalt Alloy , Superalloy

Material Notes:

13.3 mm^3 volume loss--abrasive wear data. Applications include agitators, augers, ball mills, banbury mills, cams, crusher bearings, dryers, dry presses, dump cars, fans, filters, food machinery, galvanizing roll necks, grinder ring bearings, marine equipment, mixing equipment, pulleys, pump seals, pump shafts, rotary kilns, scraper rolls, screw conveyors, spindles, stuffing boxes, thickeners, tile presses, wear bars. 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-6K-16-mm-thick-sheet.php

Physical Properties	Metric	English	Comments
Density	8.387 g/cc	0.3030 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1217 MPa	176500 psi	
	120 MPa	17400 psi	
	@Temperature 1090 °C	@Temperature 2000 °F	
	235 MPa	34100 psi	
	@Temperature 982 °C	@Temperature 1800 °F	
	484 MPa	70200 psi	
	@Temperature 816 °C	@Temperature 1500 °F	
	1007 MPa	146100 psi	
	@Temperature 649 °C	@Temperature 1200 °F	
Tensile Strength, Yield	708 MPa	103000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	59.0 MPa	8560 psi	
	@Strain 0.200 %, Temperature 1090 °C	@Strain 0.200 %, Temperature 2000 °F	
	133 MPa	19300 psi	
	@Strain 0.200 %, Temperature 982 °C	@Strain 0.200 %, Temperature 1800 °F	
	307 MPa	44500 psi	

Mechanical Properties	Metric @Strain 0.200 %, Temperature 816 Â°C	English @Strain 0.200 %, Temperature 1500 Â°F	Comments
Elongation at Break	4.0 %	4.0 %	in 50.8 mm
	8.0 % @Temperature 649 Â°C	8.0 % @Temperature 1200 Â°F	in 50.8 mm
	17 % @Temperature 816 Â°C	17 % @Temperature 1500 Â°F	in 50.8 mm
	28 % @Temperature 982 Â°C	28 % @Temperature 1800 Â°F	in 50.8 mm
	53 % @Temperature 1090 Â°C	53 % @Temperature 2000 Â°F	in 50.8 mm

Thermal Properties	Metric	English	Comments
CTE, linear	13.8 Âµm/m-Â°C @Temperature 0.000 - 400 Â°C	7.67 Âµin/in-Â°F @Temperature 32.0 - 752 Â°F	
	13.8 Âµm/m-Â°C @Temperature 0.000 - 200 Â°C	7.67 Âµin/in-Â°F @Temperature 32.0 - 392 Â°F	
	13.8 Âµm/m-Â°C @Temperature 0.000 - 100 Â°C	7.67 Âµin/in-Â°F @Temperature 32.0 - 212 Â°F	
	13.8 Âµm/m-Â°C @Temperature 0.000 - 500 Â°C	7.67 Âµin/in-Â°F @Temperature 32.0 - 932 Â°F	
	14.0 Âµm/m-Â°C @Temperature 0.000 - 600 Â°C	7.78 Âµin/in-Â°F @Temperature 32.0 - 1110 Â°F	
	14.2 Âµm/m-Â°C @Temperature 0.000 - 700 Â°C	7.89 Âµin/in-Â°F @Temperature 32.0 - 1290 Â°F	
	14.5 Âµm/m-Â°C @Temperature 0.000 - 800 Â°C	8.06 Âµin/in-Â°F @Temperature 32.0 - 1470 Â°F	

Thermal Properties	14.9 Åm/m-Å°C Metric	8.28 Åin/in-Å°F English	Comments
	@Temperature 0.000 - 900 Å°C	@Temperature 32.0 - 1650 Å°F	
	15.5 Åµm/m-Å°C	8.61 Åµin/in-Å°F	
	@Temperature 0.000 - 1000 Å°C	@Temperature 32.0 - 1830 Å°F	
Melting Point	1265 - 1354 Å°C	2309 - 2469 Å°F	
Solidus	1265 Å°C	2309 Å°F	
Liquidus	1354 Å°C	2469 Å°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.4 - 1.9 %	1.4 - 1.9 %	
Chromium, Cr	28 - 32 %	28 - 32 %	
Cobalt, Co	49.1 - 55.6 %	49.1 - 55.6 %	As remainder
Iron, Fe	<= 3.0 %	<= 3.0 %	
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	<= 1.5 %	<= 1.5 %	
Nickel, Ni	<= 3.0 %	<= 3.0 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	
Tungsten, W	3.5 - 5.5 %	3.5 - 5.5 %	

Electrical Properties	Metric	English	Comments
	<= 1.20	<= 1.20	
Magnetic Permeability	@Temperature 22.0 Å°C	@Temperature 71.6 Å°F	200 Oersted (15.900 A/m)

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