

Kennametal Stellite Stellite® 6K 12.7 or 22.2 mm plate

Category : Metal , Nonferrous Metal , Cobalt Alloy , Superalloy

Material Notes:

13.3 mm³ 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-127-or-222-mm-plate.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1008 MPa	146200 psi	
	729 MPa	106000 psi	
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
Tensile Strength, Yield	785 MPa	114000 psi	
	@Temperature 316 Â°C	@Temperature 600 Â°F	
	746 MPa	108000 psi	
Tensile Strength, Yield	@Strain 0.200 %	@Strain 0.200 %	
	517 MPa	75000 psi	
	@Strain 0.200 %, Temperature 538 Â°C	@Strain 0.200 %, Temperature 1000 Â°F	
Elongation at Break	555 MPa	80500 psi	
	@Strain 0.200 %, Temperature 316 Â°C	@Strain 0.200 %, Temperature 600 Â°F	
	1.0 %	1.0 %	in 25.4 mm
Elongation at Break	2.0 %	2.0 %	in 25.4 mm
	@Temperature 316 Â°C	@Temperature 600 Â°F	
	3.0 %	3.0 %	in 25.4 mm
Elongation at Break	@Temperature 538 Â°C	@Temperature 1000 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	13.8 Åµm/m-Å°C	7.67 Åµin/in-Å°F	
	@Temperature 0.000 - 100 Å°C	@Temperature 32.0 - 212 Å°F	
	13.8 Åµm/m-Å°C	7.67 Åµin/in-Å°F	
	@Temperature 0.000 - 300 Å°C	@Temperature 32.0 - 572 Å°F	
	13.8 Åµm/m-Å°C	7.67 Åµin/in-Å°F	
	@Temperature 0.000 - 400 Å°C	@Temperature 32.0 - 752 Å°F	
	13.8 Åµm/m-Å°C	7.67 Åµin/in-Å°F	
	@Temperature 0.000 - 200 Å°C	@Temperature 32.0 - 392 Å°F	
	14.0 Åµm/m-Å°C	7.78 Åµin/in-Å°F	
	@Temperature 0.000 - 600 Å°C	@Temperature 32.0 - 1110 Å°F	
	14.2 Åµm/m-Å°C	7.89 Åµin/in-Å°F	
	@Temperature 0.000 - 700 Å°C	@Temperature 32.0 - 1290 Å°F	
	14.5 Åµm/m-Å°C	8.06 Åµin/in-Å°F	
	@Temperature 0.000 - 800 Å°C	@Temperature 32.0 - 1470 Å°F	
	14.9 Åµm/m-Å°C	8.28 Åµin/in-Å°F	
	@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

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

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