

MULTIMET<sup>®</sup> alloy

Physical Properties

Physical P	British Units		Metric Units	
Density	RT	0.296 lb/in <sup>3</sup>	RT	8.20 g/cm <sup>3</sup>
Melting Range	2350-2470°F		1288-1354°C	
Thermal Conductivity	400°F	101 Btu-in/ft <sup>2</sup> -hr-°F	200°C	14.6 W/m-°C
	600°F	112 Btu-in/ft <sup>2</sup> -hr-°F	300°C	15.9 W/m-°C
	800°F	122 Btu-in/ft <sup>2</sup> -hr-°F	400°C	17.3 W/m-°C
	1000°F	133 Btu-in/ft <sup>2</sup> -hr-°F	500°C	18.6 W/m-°C
	1200°F	143 Btu-in/ft <sup>2</sup> -hr-°F	600°C	20.0 W/m-°C
Mean Coefficient of Thermal Expansion	70-300°F	8.2 μin/in.-°F	20-100°C	14.1 μm/m-°C
	70-400°F	8.5 μin/in.-°F	20-200°C	15.2 μm/m-°C
	70-500°F	8.5 μin/in.-°F	20-300°C	15.3 μm/m-°C
	70-600°F	8.5 μin/in.-°F	20-400°C	15.6 μm/m-°C
	70-800°F	8.7 μin/in.-°F	20-500°C	16.0 μm/m-°C
	70-1000°F	9.1 μin/in.-°F	20-600°C	16.7 μm/m-°C
	70-1200°F	9.4 μin/in.-°F	20-700°C	17.2 μm/m-°C
	70-1400°F	9.8 μin/in.-°F	20-800°C	17.5 μm/m-°C
	70-1600°F	9.9 μin/in.-°F	20-900°C	17.8 μm/m-°C
	70-1800°F	10.1 μin/in.-°F	20-1000°C	18.1 μm/m-°C
70-2000°F	10.3 μin/in.-°F	20-1100°C	18.4 μm/m-°C	
Electrical Resistivity	400°F	40.1 μohm-in	200°C	101.7 μohm-cm
	800°F	43.4 μohm-in	400°C	109.5 μohm-cm
	1000°F	44.6 μohm-in	600°C	115.0 μohm-cm
	1200°F	45.7 μohm-in	700°C	117.0 μohm-cm
	1400°F	46.5 μohm-in	800°C	119.0 μohm-cm
	1600°F	47.4 μohm-in	900°C	121.0 μohm-cm
	1800°F	48.2 μohm-in	1000°C	122.7 μohm-cm
Specific Heat (Calculated)	70-212°F	0.104 Btu/lb.-°F	22-100°C	0.104J/kg-°C
Poisson's Ratio	-108°F	0.319	-78°C	0.319
	RT	0.298	RT	0.298
	800°F	0.315	426°C	0.315
	1200°F	0.325	650°C	0.325
	1500°F	0.339	816°C	0.339
Emissivity (Oxidized)	2000°F	0.88	1090°C	0.88

RT = Room Temperature

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