

Haynes Hastelloy® W alloy, gas metal arc welds, aged 1000 hours at 650°C (1200°F)

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Solid solution-strengthened developed as a filler metal for welding of dissimilar alloys. Applications include excellent dissimilar welding characteristics in the gas turbine, aerospace, and chemical process industries. Data provided by the manufacturer, Haynes International, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haynes-Hastelloy-W-alloy-gas-metal-arc-welds-aged-1000-hours-at-650C-1200F.php

Physical Properties	Metric	English	Comments
Density	9.00 g/cc	0.325 lb/in ³	at RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1055 MPa	153000 psi	
	565 MPa @Temperature 760 °C	81900 psi @Temperature 1400 °F	
Tensile Strength, Yield	755 MPa	110000 psi	
	400 MPa @Temperature 760 °C	58000 psi @Temperature 1400 °F	
Elongation at Break	15 %	15 %	
	30 % @Temperature 760 °C	30 % @Temperature 1400 °F	
Reduction of Area	16 %	16 %	
	47 % @Temperature 760 °C	47 % @Temperature 1400 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	13.2 µm/m-°C	7.33 µin/in-°F	
	@Temperature 20.0 - 600 °C	@Temperature 68.0 - 1110 °F	
	13.2 µm/m-°C	7.33 µin/in-°F	
	@Temperature 20.0 -	@Temperature 68.0 -	

Thermal Properties	500 Â°C Metric	932 Â°F English	Comments
	13.5 Âµm/m-Â°C	7.50 Âµin/in-Â°F	
	@Temperature 20.0 - 700 Â°C	@Temperature 68.0 - 1290 Â°F	
	14.2 Âµm/m-Â°C	7.89 Âµin/in-Â°F	
	@Temperature 20.0 - 800 Â°C	@Temperature 68.0 - 1470 Â°F	
	14.8 Âµm/m-Â°C	8.22 Âµin/in-Â°F	
	@Temperature 20.0 - 900 Â°C	@Temperature 68.0 - 1650 Â°F	
	15.3 Âµm/m-Â°C	8.50 Âµin/in-Â°F	
	@Temperature 20.0 - 1000 Â°C	@Temperature 68.0 - 1830 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.12 %	<= 0.12 %	
Chromium, Cr	5.0 %	5.0 %	
Cobalt, Co	2.5 %	2.5 %	
Iron, Fe	6.0 %	6.0 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	24 %	24 %	
Nickel, Ni	63 %	63 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Vanadium, V	<= 0.60 %	<= 0.60 %	

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