Haynes HastelloyÂ® W alloy, gas tungsten arc welds, aged 1000 hours at 650Â°C (1200Â°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-tungsten-arc-welds-aged-1000-hours-at-650C-1200F.php

Physical Properties	Metric	English	Comments
Density	9.00 g/cc	0.325 lb/inÂ³	at RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1100 MPa	160000 psi	
	580 MPa @Temperature 760 Â°C	84100 psi @Temperature 1400 Â°F	
Tensile Strength, Yield	795 MPa	115000 psi	
	445 MPa @Temperature 760 Â°C	64500 psi @Temperature 1400 Â°F	
Elongation at Break	14 %	14 %	
	27 % @Temperature 760 Â°C	27 % @Temperature 1400 Â°F	
Reduction of Area	16 %	16 %	
	38 % @Temperature 760 Â°C	38 % @Temperature 1400 Â°F	

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

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