

Haynes Hastelloy® W alloy, shielded metal arc welds, as-welded

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-shielded-metal-arc-welds-as-welded.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	760 MPa	110000 psi	
	265 MPa @Temperature 870 Â°C	38400 psi @Temperature 1600 Â°F	
Tensile Strength, Yield	525 MPa	76100 psi	
	250 MPa @Temperature 870 Â°C	36300 psi @Temperature 1600 Â°F	
Elongation at Break	25 %	25 %	
	14 % @Temperature 870 Â°C	14 % @Temperature 1600 Â°F	
Reduction of Area	22 %	22 %	
	15 % @Temperature 870 Â°C	15 % @Temperature 1600 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	13.2 Âµm/m-Â°C	7.33 Âµin/in-Â°F	
	@Temperature 20.0 - 600 Â°C	@Temperature 68.0 - 1110 Â°F	
	13.2 Âµm/m-Â°C	7.33 Âµin/in-Â°F	
	@Temperature 20.0 - 500 Â°C	@Temperature 68.0 - 932 Â°F	

Thermal Properties	Metric	English	Comments
	@Temperature 20.0 - 700 Å°C	@Temperature 68.0 - 1290 Å°F	
	14.2 Åµm/m-Å°C	7.89 Åµin/in-Å°F	
	@Temperature 20.0 - 800 Å°C	@Temperature 68.0 - 1470 Å°F	
	14.8 Åµm/m-Å°C	8.22 Åµin/in-Å°F	
	@Temperature 20.0 - 900 Å°C	@Temperature 68.0 - 1650 Å°F	
	15.3 Åµm/m-Å°C	8.50 Åµin/in-Å°F	
	@Temperature 20.0 - 1000 Å°C	@Temperature 68.0 - 1830 Å°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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