

Haynes Hastelloy® W alloy, gas tungsten 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-gas-tungsten-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	830 MPa	120000 psi	
	295 MPa	42800 psi	
	@Temperature 870 Â°C	@Temperature 1600 Â°F	
Tensile Strength, Yield	555 MPa	80500 psi	
	275 MPa	39900 psi	
	@Temperature 870 Â°C	@Temperature 1600 Â°F	
Elongation at Break	35 %	35 %	
	45 %	45 %	
	@Temperature 870 Â°C	@Temperature 1600 Â°F	
Reduction of Area	27 %	27 %	
	53 %	53 %	
	@Temperature 870 Â°C	@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 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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