

Haynes Hastelloy® W alloy as a weld filler, base metal Multimet alloy 12.7 mm plate weldment

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-as-a-weld-filler-base-metal-Multimet-alloy-127-mm-plate-weldment.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	800 MPa	116000 psi	
	290 MPa @Temperature 870 Â°C	42100 psi @Temperature 1600 Â°F	
Tensile Strength, Yield	425 MPa	61600 psi	
	215 MPa @Temperature 870 Â°C	31200 psi @Temperature 1600 Â°F	
Elongation at Break	49 %	49 %	Failures in base metal.
	28 % @Temperature 870 Â°C	28 % @Temperature 1600 Â°F	Failures in base metal.
Reduction of Area	65 %	65 %	Failures in base metal.
	42 % @Temperature 870 Â°C	42 % @Temperature 1600 Â°F	Failures in base metal.

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	

Thermal Properties	Metric @Temperature 20.0 - 300 Â°C	English @Temperature 68.0 - 539 Â°F	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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