

Haynes Hastelloy® W alloy as a weld filler, base metal Carbon steel 12.7 mm plate weldments

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-Carbon-steel-127-mm-plate-weldments.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	500 MPa	72500 psi	
Tensile Strength, Yield	415 MPa	60200 psi	
Elongation at Break	14 %	14 %	Failures in base metal.
Reduction of Area	50 %	50 %	Failures in base metal.

Thermal Properties	Metric	English	Comments
CTE, linear	13.2 $\mu\text{m/m-}^\circ\text{C}$	7.33 $\mu\text{in/in-}^\circ\text{F}$	
	@Temperature 20.0 - 600 $^\circ\text{C}$	@Temperature 68.0 - 1110 $^\circ\text{F}$	
	13.2 $\mu\text{m/m-}^\circ\text{C}$	7.33 $\mu\text{in/in-}^\circ\text{F}$	
	@Temperature 20.0 - 500 $^\circ\text{C}$	@Temperature 68.0 - 932 $^\circ\text{F}$	
	13.5 $\mu\text{m/m-}^\circ\text{C}$	7.50 $\mu\text{in/in-}^\circ\text{F}$	
	@Temperature 20.0 - 700 $^\circ\text{C}$	@Temperature 68.0 - 1290 $^\circ\text{F}$	
	14.2 $\mu\text{m/m-}^\circ\text{C}$	7.89 $\mu\text{in/in-}^\circ\text{F}$	
@Temperature 20.0 - 800 $^\circ\text{C}$	@Temperature 68.0 - 1470 $^\circ\text{F}$		
14.8 $\mu\text{m/m-}^\circ\text{C}$	8.22 $\mu\text{in/in-}^\circ\text{F}$		
@Temperature 20.0 - 900 $^\circ\text{C}$	@Temperature 68.0 - 1650 $^\circ\text{F}$		
15.3 $\mu\text{m/m-}^\circ\text{C}$	8.50 $\mu\text{in/in-}^\circ\text{F}$		

Thermal Properties	@Temperature 20.0 - 100.0 °C Metric	@Temperature 68.0 - 180.0 °F English	Comments
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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