

Haynes Hastelloy® alloy 718 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-alloy-718-127-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	860 MPa	125000 psi	
Tensile Strength, Yield	470 MPa	68200 psi	
Elongation at Break	23 %	23 %	Failures in weld.
Reduction of Area	31 %	31 %	Failures in weld.

Thermal Properties	Metric	English	Comments
CTE, linear	13.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 600 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1110 $\text{Å}^\circ\text{F}$	
	13.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 500 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 932 $\text{Å}^\circ\text{F}$	
	13.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.50 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 700 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1290 $\text{Å}^\circ\text{F}$	
	14.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 800 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1470 $\text{Å}^\circ\text{F}$	
	14.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 900 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1650 $\text{Å}^\circ\text{F}$	
	15.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.50 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 - 1000 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 1830 $\text{Å}^\circ\text{F}$	

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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