Haynes Hastelloy® alloy 625 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-625-127-mm-plate-weldments.php

Physical Properties	Metric	English	Comments
Density	9.00 g/cc	0.325 lb/in³	at RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	820 MPa	119000 psi	
	300 MPa @Temperature 870 °C	43500 psi @Temperature 1600 °F	
Tensile Strength, Yield	475 MPa	68900 psi	
	240 MPa @Temperature 870 °C	34800 psi @Temperature 1600 °F	
Elongation at Break	63 %	63 %	Failures in base metal.
	58 % @Temperature 870 °C	58 % @Temperature 1600 °F	Failures in base metal.
Reduction of Area	63 %	63 %	Failures in base metal.
	91 % @Temperature 870 °C	91 % @Temperature 1600 °F	Failures in base metal.

Thermal Properties	Metric	English	Comments
CTE, linear	13.2 µm/m-°C @Temperature 20.0 - 600 °C	7.33 µin/in-°F @Temperature 68.0 - 1110 °F	
	13.2 µm/m-°C @Temperature 20.0 - 500 °C	7.33 µin/in-°F @Temperature 68.0 - 932 °F	
	13.5 µm/m-°C @Temperature 20.0 -	7.50 µin/in-°F @Temperature 68.0 -	

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