

## Haynes Hastelloy® W alloy as a weld filler, base metal Alloy 625/ 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-W-alloy-as-a-weld-filler-base-metal-Alloy-625-Alloy-718-127-mm-plate-weldments.php](http://www.lookpolymers.com/polymer_Haynes-Hastelloy-W-alloy-as-a-weld-filler-base-metal-Alloy-625-Alloy-718-127-mm-plate-weldments.php)

Physical Properties	Metric	English	Comments
Density	9.00 g/cc	0.325 lb/in <sup>3</sup>	at RT

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	905 MPa	131000 psi	
	330 MPa @Temperature 870 Â°C	47900 psi @Temperature 1600 Â°F	
Tensile Strength, Yield	430 MPa	62400 psi	
	270 MPa @Temperature 870 Â°C	39200 psi @Temperature 1600 Â°F	
Elongation at Break	43 %	43 %	Failures in weld and base metal.
	51 % @Temperature 870 Â°C	51 % @Temperature 1600 Â°F	Failures in base metal.
Reduction of Area	42 %	42 %	Failures in weld and base metal.
	95 % @Temperature 870 Â°C	95 % @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 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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