

Haynes Hastelloy® alloy X 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-X-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 | 780 MPa | 113000 psi | |
| | 290 MPa @Temperature 870 Â°C | 42100 psi @Temperature 1600 Â°F | |
| Tensile Strength, Yield | 395 MPa | 57300 psi | |
| | 230 MPa @Temperature 870 Â°C | 33400 psi @Temperature 1600 Â°F | |
| Elongation at Break | 52 % | 52 % | Failures in base metal. |
| | 39 % @Temperature 870 Â°C | 39 % @Temperature 1600 Â°F | Failures in base metal. |
| Reduction of Area | 55 % | 55 % | Failures in base metal. |
| | 65 % @Temperature 870 Â°C | 65 % @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 | |
| | @Temperature 20.0 - 500 Â°C | @Temperature 68.0 - 932 Â°F | |

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