

## Outokumpu 4713 High Temperature Ferritic Stainless Steel

Category : Metal , Ferrous Metal , Ferritic , Stainless Steel

### Material Notes:

Does not form brittle phases but should only be exposed to moderately corrosive atmospheres due to low chromium content.Applications:

Mostly used in high temperature applications with sulphurous atmospheres and/or low tensile loads such as for installations within:

Chemical industry (drums)Power industry (coal burners)Metalworking industry (heat treatment boxes)Furnace technology (walls, doors)Available in hot rolled plate (Quarto) form.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Outokumpu-4713-High-Temperature-Ferritic-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Outokumpu-4713-High-Temperature-Ferritic-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in <sup>3</sup>	RT

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	192	192	RT; EN 10003-1
Tensile Strength, Ultimate	475 MPa	68900 psi	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1
Tensile Strength, Yield	320 MPa @Strain 0.200 %	46400 psi @Strain 0.200 %	Outokumpu Typical,Hot Rolled Plate (Quarto); EN 10002-1
	350 MPa @Strain 1.00 %	50800 psi @Strain 1.00 %	Outokumpu Typical,Hot Rolled Plate (Quarto); EN 10002-1
Elongation at Break	30 %	30 %	Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1

Thermal Properties	Metric	English	Comments
CTE, linear	13.2 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 600 °C	7.33 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 1110 °F	
Specific Heat Capacity	0.430 J/g-°C	0.103 BTU/lb-°F	RT
Thermal Conductivity	20.5 W/m-K	142 BTU-in/hr-ft <sup>2</sup> -°F	RT
	25.4 W/m-K @Temperature 500 °C	176 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 932 °F	
Maximum Service Temperature, Air	800 °C	1470 °F	Dry Air

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.50 %	0.50 %	

Component Elements Properties	Metric	English	Comments
Chromium, Cr	7.0 %	7.0 %	
Iron, Fe	92.38 %	92.38 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000710 ohm-cm	0.0000710 ohm-cm	

Processing Properties	Metric	English	Comments
Annealing Temperature	750 - 800 °C	1380 - 1470 °F	Cooling: forced air or water

## Contact Songhan Plastic Technology Co.,Ltd.

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