

Outokumpu 4724 High Temperature Ferritic Stainless Steel

Category : Metal , Ferrous Metal , Ferritic , Stainless Steel

Material Notes:

Truly stainless high temperature grade with 13% chromium. Not critical in terms of embrittlement. 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-4724-High-Temperature-Ferritic-Stainless-Steel.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 7.60 g/cc | 0.275 lb/in ³ | RT |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------|------------------------------|--|
| Hardness, Brinell | 192 | 192 | RT; EN 10003-1 |
| Tensile Strength, Ultimate | 515 MPa | 74700 psi | Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1 |
| Tensile Strength, Yield | 340 MPa @Strain 0.200 % | 49300 psi @Strain 0.200 % | Outokumpu Typical, Hot Rolled Plate (Quarto); EN 10002-1 |
| | 370 MPa @Strain 1.00 % | 53700 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 | 12.2 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 600 °C | 6.78 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 1110 °F | |
| Specific Heat Capacity | 0.440 J/g-°C | 0.105 BTU/lb-°F | RT |
| Thermal Conductivity | 15.7 W/m-K | 109 BTU-in/hr-ft ² -°F | RT |
| | 22.3 W/m-K @Temperature 500 °C | 155 BTU-in/hr-ft ² -°F @Temperature 932 °F | |
| Maximum Service Temperature, Air | 850 °C | 1560 °F | Dry Air |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Aluminum, Al | 0.70 % | 0.70 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------|---------|----------|
| Chromium, Cr | 13 % | 13 % | |
| Iron, Fe | 86.18 % | 86.18 % | |

| Electrical Properties | Metric | English | Comments |
|------------------------|------------------|------------------|----------|
| Electrical Resistivity | 0.0000920 ohm-cm | 0.0000920 ohm-cm | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|----------------|------------------------------|
| Annealing Temperature | 800 - 850 °C | 1470 - 1560 °F | Cooling: forced air or water |

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