

## Outokumpu 4372 Cr-Ni Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

### Material Notes:

Applications: Wet corrosion resistance and general service. Available in hot rolled strip/sheet (CPP), cold rolled strip/sheet, cold rolled narrow strip, and rod forms.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Outokumpu-4372-Cr-Ni-Austenitic-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Outokumpu-4372-Cr-Ni-Austenitic-Stainless-Steel.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 7.80 g/cc | 0.282 lb/in <sup>3</sup> | RT       |

| Mechanical Properties      | Metric                              | English                             | Comments                                               |
|----------------------------|-------------------------------------|-------------------------------------|--------------------------------------------------------|
| Tensile Strength, Ultimate | 720 MPa                             | 104000 psi                          | Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1 |
| Tensile Strength, Yield    | 350 MPa                             | 50800 psi                           | EN min., RT; EN 10002-1                                |
|                            | @Strain 0.200 %                     | @Strain 0.200 %                     |                                                        |
|                            | 390 MPa                             | 56600 psi                           | Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1 |
|                            | @Strain 0.200 %                     | @Strain 0.200 %                     |                                                        |
|                            | 420 MPa                             | 60900 psi                           | Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1 |
|                            | @Strain 1.00 %                      | @Strain 1.00 %                      |                                                        |
|                            | 230 MPa                             | 33400 psi                           | EN min.; EN 10002-5                                    |
|                            | @Strain 0.200 %, Temperature 200 °C | @Strain 0.200 %, Temperature 392 °F |                                                        |
|                            | 295 MPa                             | 42800 psi                           | EN min.; EN 10002-5                                    |
|                            | @Strain 0.200 %, Temperature 100 °C | @Strain 0.200 %, Temperature 212 °F |                                                        |
| Elongation at Break        | 45 %                                | 45 %                                | Outokumpu Typical, Cold Rolled Strip/Sheet; EN 10002-1 |
| Modulus of Elasticity      | 200 GPa                             | 29000 ksi                           | RT                                                     |
|                            | 172 GPa                             | 24900 ksi                           |                                                        |
|                            | @Temperature 400 °C                 | @Temperature 752 °F                 |                                                        |

| Thermal Properties | Metric              | English             | Comments |
|--------------------|---------------------|---------------------|----------|
| CTE, linear        | 16.0 µm/m-°C        | 8.89 µin/in-°F      |          |
|                    | @Temperature 100 °C | @Temperature 212 °F |          |

| Thermal Properties     | 17.5 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$<br>Metric | 9.72 $\mu\text{m}/\text{in}\cdot^\circ\text{F}$<br>English | Comments |
|------------------------|----------------------------------------------------------|------------------------------------------------------------|----------|
|                        | @Temperature 400 $^\circ\text{C}$                        | @Temperature 752 $^\circ\text{F}$                          |          |
| Specific Heat Capacity | 0.500 J/g- $^\circ\text{C}$                              | 0.120 BTU/lb- $^\circ\text{F}$                             | RT       |
| Thermal Conductivity   | 15.0 W/m-K                                               | 104 BTU-in/hr-ft $^2$ - $^\circ\text{F}$                   | RT       |
|                        | 20.0 W/m-K                                               | 139 BTU-in/hr-ft $^2$ - $^\circ\text{F}$                   |          |
|                        | @Temperature 400 $^\circ\text{C}$                        | @Temperature 752 $^\circ\text{F}$                          |          |

| Component Elements Properties | Metric  | English | Comments |
|-------------------------------|---------|---------|----------|
| Carbon, C                     | 0.050 % | 0.050 % |          |
| Chromium, Cr                  | 17 %    | 17 %    |          |
| Iron, Fe                      | 71.3 %  | 71.3 %  |          |
| Manganese, Mn                 | 6.5 %   | 6.5 %   |          |
| Nickel, Ni                    | 5.0 %   | 5.0 %   |          |
| Nitrogen, N                   | 0.15 %  | 0.15 %  |          |

| Electrical Properties  | Metric           | English          | Comments |
|------------------------|------------------|------------------|----------|
| Electrical Resistivity | 0.0000700 ohm-cm | 0.0000700 ohm-cm | RT       |

## Contact Songhan Plastic Technology Co.,Ltd.

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