

MetalTek MTEK 25-12 Cast UNS J93503 Heat Resistant Stainless Steel

Category : Metal , Ferrous Metal , Heat Resisting , Stainless Steel , Cast Stainless Steel , T 300 Series Stainless Steel

Material Notes:

Very sensitive to composition balance. Suitable for a wide range of high temperature applications. Applications: Rable arms, radiant tubes, refractory support hardware, grate bars. Information provided by MetalTek

Order this product through the following link:

http://www.lookpolymers.com/polymer_MetalTek-MTEK-25-12-Cast-UNS-J93503-Heat-Resistant-Stainless-Steel.php

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|--------------|----------|
| Hardness, Brinell | 179 | 179 | |
| Tensile Strength, Ultimate | >= 515 MPa | >= 74700 psi | |
| Tensile Strength, Yield | >= 240 MPa | >= 34800 psi | |
| Elongation at Break | >= 10 % | >= 10 % | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|----------|----------|
| Maximum Service Temperature, Air | 980 Â°C | 1800 Â°F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------------|---------------|------------|
| Carbon, C | 0.20 - 0.50 % | 0.20 - 0.50 % | |
| Chromium, Cr | 24 - 28 % | 24 - 28 % | |
| Iron, Fe | 53.5 - 64.8 % | 53.5 - 64.8 % | As Balance |
| Manganese, Mn | <= 2.0 % | <= 2.0 % | |
| Nickel, Ni | 11 - 14 % | 11 - 14 % | |
| Silicon, Si | <= 2.0 % | <= 2.0 % | |

| Descriptive Properties | Value | Comments |
|------------------------|------------------|----------|
| Heat Treatment | Not Heat Treated | |

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