

Crucible Steel JIS SUH11 Martensitic Steel

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel

Material Notes:

Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-JIS-SUH11-Martensitic-Steel.php

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|----------|
| Hardness, Brinell | >= 262 | >= 262 | |
| Hardness, Rockwell C | <= 34 | <= 34 | |
| Tensile Strength, Ultimate | >= 932 MPa | >= 135000 psi | |
| Tensile Strength, Yield | >= 686 MPa | >= 99500 psi | |
| Elongation at Break | >= 15 % | >= 15 % | |
| Reduction of Area | >= 35 % | >= 35 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------------|---------------|--------------|
| Carbon, C | 0.45 - 0.55 % | 0.45 - 0.55 % | |
| Chromium, Cr | 7.5 - 9.5 % | 7.5 - 9.5 % | |
| Iron, Fe | >= 86.25 % | >= 86.25 % | As Remainder |
| Manganese, Mn | <= 0.60 % | <= 0.60 % | |
| Nickel, Ni | <= 0.60 % | <= 0.60 % | |
| Silicon, Si | 1.8 - 2.5 % | 1.8 - 2.5 % | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------------------|----------|
| Heat Treatment, °C | 1000-1050 O.Q; 650-750 W.Q. | |

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