

Crucible Steel 422 (JIS SUH616) Martensitic Steel

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-422-JIS-SUH616-Martensitic-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 341	<= 341	
Hardness, Rockwell C	<= 35	<= 35	
Tensile Strength, Ultimate	>= 882.6 MPa	>= 128000 psi	
Tensile Strength, Yield	>= 735.5 MPa	>= 106700 psi	
Elongation at Break	>= 10 %	>= 10 %	
Reduction of Area	>= 25 %	>= 25 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.20 - 0.25 %	0.20 - 0.25 %	
Chromium, Cr	11 - 13 %	11 - 13 %	
Iron, Fe	>= 81.9 %	>= 81.9 %	As Remainder
Manganese, Mn	0.50 - 1.0 %	0.50 - 1.0 %	
Molybdenum, Mo	0.75 - 1.25 %	0.75 - 1.25 %	
Nickel, Ni	0.50 - 1.0 %	0.50 - 1.0 %	
Silicon, Si	<= 0.050 %	<= 0.050 %	
Tungsten, W	0.75 - 1.25 %	0.75 - 1.25 %	
Vanadium, V	0.20 - 0.30 %	0.20 - 0.30 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	1020-1070 O.C.; 600 MIN A.C.	

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