

Crucible Steel JIS SUH600 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-SUH600-Martensitic-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 321	<= 321	
Hardness, Rockwell C	<= 35	<= 35	
Tensile Strength, Ultimate	>= 834 MPa	>= 121000 psi	
Tensile Strength, Yield	>= 686 MPa	>= 99500 psi	
Elongation at Break	>= 15 %	>= 15 %	
Reduction of Area	>= 30 %	>= 30 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.15 - 0.20 %	0.15 - 0.20 %	
Chromium, Cr	10 - 13 %	10 - 13 %	
Iron, Fe	>= 83.15 %	>= 83.15 %	As Remainder
Manganese, Mn	0.50 - 1.0 %	0.50 - 1.0 %	
Nickel, Ni	<= 0.60 %	<= 0.60 %	
Niobium, Nb (Columbium, Cb)	0.20 - 0.60 %	0.20 - 0.60 %	
Nitrogen, N	0.050 - 0.10 %	0.050 - 0.10 %	
Silicon, Si	<= 0.050 %	<= 0.050 %	
Vanadium, V	0.10 - 0.40 %	0.10 - 0.40 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	1100-1170 O.C.; 600 MIN A.C.	

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