

Crucible Steel SUE52 Martensitic Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

Material Notes:

Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-SUE52-Martensitic-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 262	<= 262	
Hardness, Rockwell C	<= 42	<= 42	
Tensile Strength, Ultimate	>= 882.6 MPa	>= 128000 psi	
Tensile Strength, Yield	>= 686 MPa	>= 99500 psi	
Elongation at Break	>= 8.0 %	>= 8.0 %	
Reduction of Area	>= 10 %	>= 10 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 - 0.55 %	0.40 - 0.55 %	
Chromium, Cr	20 - 22 %	20 - 22 %	
Iron, Fe	>= 59.45 %	>= 59.45 %	As Remainder
Manganese, Mn	8.0 - 10 %	8.0 - 10 %	
Molybdenum, Mo	0.050 - 0.50 %	0.050 - 0.50 %	
Nickel, Ni	3.5 - 4.5 %	3.5 - 4.5 %	
Niobium, Nb (Columbium, Cb)	0.050 - 0.50 %	0.050 - 0.50 %	
Nitrogen, N	0.30 - 0.50 %	0.30 - 0.50 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	
Tungsten, W	0.10 - 1.0 %	0.10 - 1.0 %	
Vanadium, V	0.050 - 0.50 %	0.050 - 0.50 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	1150-1200 W.Q.; 750-850 A.C.	

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