

Crucible Steel 21-12N (JIS SUH37) 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-21-12N-JIS-SUH37-Martensitic-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 248	<= 248	
Hardness, Rockwell C	<= 40	<= 40	
Tensile Strength, Ultimate	>= 785 MPa	>= 114000 psi	
Tensile Strength, Yield	>= 392.3 MPa	>= 56900 psi	
Elongation at Break	>= 35 %	>= 35 %	
Reduction of Area	>= 35 %	>= 35 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.15 - 0.25 %	0.15 - 0.25 %	
Chromium, Cr	20.5 - 22.5 %	20.5 - 22.5 %	
Iron, Fe	>= 62.35 %	>= 62.35 %	As Remainder
Manganese, Mn	1.0 - 1.6 %	1.0 - 1.6 %	
Nickel, Ni	10 - 12 %	10 - 12 %	
Nitrogen, N	0.15 - 0.30 %	0.15 - 0.30 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	

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

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