

Crucible Steel 21-4NNb 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-21-4NNb-Martensitic-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 285	<= 285	
Hardness, Rockwell C	<= 42	<= 42	
Tensile Strength, Ultimate	>= 882.6 MPa	>= 128000 psi	
Tensile Strength, Yield	>= 559 MPa	>= 81100 psi	
Elongation at Break	>= 8.0 %	>= 8.0 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.48 - 0.58 %	0.48 - 0.58 %	
Chromium, Cr	20 - 22 %	20 - 22 %	
Iron, Fe	>= 58.17 %	>= 58.17 %	As Remainder
Manganese, Mn	8.0 - 10 %	8.0 - 10 %	
Molybdenum, Mo	<= 0.70 %	<= 0.70 %	
Nickel, Ni	3.25 - 4.5 %	3.25 - 4.5 %	
Niobium, Nb (Columbium, Cb)	2.0 - 3.0 %	2.0 - 3.0 %	
Nitrogen, N	0.38 - 0.50 %	0.38 - 0.50 %	
Silicon, Si	<= 0.45 %	<= 0.45 %	
Thallium, Tl	<= 0.10 %	<= 0.10 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	1100-1200 W.Q.	

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