

## Crucible Steel 21-4NNbW 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-21-4NNbW-Martensitic-Steel.php](http://www.lookpolymers.com/polymer_Crucible-Steel-21-4NNbW-Martensitic-Steel.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 285	<= 285	
Hardness, Rockwell C	<= 42	<= 42	
Tensile Strength, Ultimate	>= 932 MPa	>= 135000 psi	
Tensile Strength, Yield	>= 559 MPa	>= 81100 psi	
Elongation at Break	>= 10 %	>= 10 %	
Reduction of Area	>= 10 %	>= 10 %	

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 %	
Nb + Ta	1.75 - 2.25 %	1.75 - 2.25 %	
Nickel, Ni	3.25 - 4.5 %	3.25 - 4.5 %	
Nitrogen, N	0.38 - 0.50 %	0.38 - 0.50 %	
Silicon, Si	<= 0.25 %	<= 0.25 %	
Tungsten, W	0.25 - 1.25 %	0.25 - 1.25 %	
Vanadium, V	0.20 - 0.50 %	0.20 - 0.50 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	1100-1200 W.Q.; 730-780 A.C.	

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