

Crucible Steel 23-8N 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-23-8N-Martensitic-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 241	<= 241	
Hardness, Rockwell C	<= 40	<= 40	
Tensile Strength, Ultimate	>= 882.6 MPa	>= 128000 psi	
Tensile Strength, Yield	>= 490.3 MPa	>= 71110 psi	
Elongation at Break	>= 20 %	>= 20 %	
Reduction of Area	>= 20 %	>= 20 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.28 - 0.38 %	0.28 - 0.38 %	
Chromium, Cr	22 - 24 %	22 - 24 %	
Iron, Fe	>= 61.72 %	>= 61.72 %	As Remainder
Manganese, Mn	1.5 - 3.5 %	1.5 - 3.5 %	
Nickel, Ni	7.0 - 9.0 %	7.0 - 9.0 %	
Nitrogen, N	0.25 - 0.40 %	0.25 - 0.40 %	
Silicon, Si	0.50 - 1.0 %	0.50 - 1.0 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	1100-1180 W.Q.; 760-790 A.C.	

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