

Crucible Steel TPA21 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-TPA21-Martensitic-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 248	<= 248	
Hardness, Rockwell C	<= 36	<= 36	
Tensile Strength, Ultimate	>= 735.5 MPa	>= 106700 psi	
Tensile Strength, Yield	>= 313.8 MPa	>= 45510 psi	
Elongation at Break	>= 30 %	>= 30 %	
Reduction of Area	>= 40 %	>= 40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 - 0.50 %	0.40 - 0.50 %	
Chromium, Cr	13 - 15 %	13 - 15 %	
Iron, Fe	>= 66.25 %	>= 66.25 %	As Remainder
Manganese, Mn	<= 0.70 %	<= 0.70 %	
Molybdenum, Mo	0.20 - 0.50 %	0.20 - 0.50 %	
Nickel, Ni	13 - 15 %	13 - 15 %	
Silicon, Si	0.30 - 0.80 %	0.30 - 0.80 %	
Tungsten, W	1.25 - 1.75 %	1.25 - 1.75 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	950-1050 W.Q.	

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