

MetalTek MTEK H46 Martensitic Stainless Steel

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel , Cast Stainless Steel , T 400 Series Stainless Steel

Material Notes:

"400" series, General corrosion resistant alloy, high strength. Applications: Chemical and food process equipment, jet engine compressor cases and rocket engine parts. Information provided by MetalTekWrought Grade H46

Order this product through the following link:

http://www.lookpolymers.com/polymer_MetalTek-MTEK-H46-Martensitic-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	285 - 321	285 - 321	
Tensile Strength, Ultimate	>= 930 MPa	>= 135000 psi	
Tensile Strength, Yield	>= 790 MPa	>= 115000 psi	
Elongation at Break	>= 8.0 %	>= 8.0 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.10 - 0.16 %	0.10 - 0.16 %	
Cb + Ta	0.15 - 0.55 %	0.15 - 0.55 %	
Chromium, Cr	10 - 12 %	10 - 12 %	
Iron, Fe	83.14 - 88.5 %	83.14 - 88.5 %	As Balance
Manganese, Mn	0.30 - 1.0 %	0.30 - 1.0 %	
Molybdenum, Mo	0.40 - 1.1 %	0.40 - 1.1 %	
Nickel, Ni	0.30 - 1.1 %	0.30 - 1.1 %	
Silicon, Si	0.10 - 0.60 %	0.10 - 0.60 %	
Vanadium, V	0.15 - 0.35 %	0.15 - 0.35 %	

Descriptive Properties	Value	Comments
Heat Treatment	Anneal/Hard & Temper	

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