

Industeel VIRGO 17.4PH 17Cr-4Ni-3Cu Precipitation Hardening Martensitic Stainless Steel (593Â°C - 4 hours + air cooled)

Category : Metal , Ferrous Metal , Martensitic , Stainless Steel , Precipitation Hardening Stainless , T S10000 Series Stainless Steel

Material Notes:

Description: Alloy VIRGO 17.4 PH is a precipitation hardening martensitic stainless steel with Cu and Nb/Cb additions. The grade combines high strength, hardness (up to 300Â°C / 572Â°F) and corrosion resistance. Mechanical properties can be optimized with heat treatment. Very high yield strength up to 1100-1300 MPa can be achieved. The grade should not be used at temperatures above 300Â°C (572Â°F) or at very low temperatures. It has adequate resistance to atmospheric corrosion or in diluted acids or salts where its corrosion resistance is equivalent to CLC 18.9 (304) or SOLEIL B4 (430). If there are potential risks of stress corrosion cracking, higher aging temperatures must be selected over 550Â°C (1022Â°F), preferably 590Â°C(1094Â°F). The main applications are :mechanical componentsaerospaceoffshore industryfood industryInformation provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industeel-VIRGO-174PH-17Cr-4Ni-3Cu-Precipitation-Hardening-Martensitic-Stainless-Steel-593C-4-hours-air-cooled.php

Physical Properties	Metric	English	Comments
Density	7.80 g/cc	0.282 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	293	293	Typical
Hardness, Rockwell C	29	29	Typical
Tensile Strength, Ultimate	>= 965 MPa	>= 140000 psi	Minimum Guaranteed
	1034 MPa	150000 psi	Typical
Tensile Strength, Yield	>= 790 MPa	>= 115000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
	931 MPa	135000 psi	Typical
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	
	17 %	17 %	Typical
Charpy Impact	>= 20.0 J	>= 14.8 ft-lb	At RT, Transverse

Component Elements Properties	Metric	English	Comments
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	16.5 %	16.5 %	

Component Elements Properties	Metric	English	Comments
Iron, Fe	74.66 %	74.66 %	As remainder
Manganese, Mn	0.70 %	0.70 %	
Nickel, Ni	4.5 %	4.5 %	
Niobium, Nb (Columbium, Cb)	0.30 %	0.30 %	

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