

Industeel VIRGO 15.5PH 15Cr-5Ni-3Cu Precipitation Hardening Martensitic Stainless Steel (496°C - 4 hours - air cooling)

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

Material Notes:

Description: Alloy VIRGO 15.5 PH is a precipitation hardening martensitic stainless steel with 15% Cr, 5% Ni, 3.5% Cu and 0.3% Nb/Cb. The grade combines high mechanical properties and medium corrosion resistance. The VIRGO 15.5 PH grade is similar to the VIRGO 17.4 PH grade having equivalent mechanical properties. Due to the lower Chromium content and increased Nickel content the VIRGO 15.5 PH grade contains less ferrite which provides better through thickness properties particularly when considering thick plates. The corrosion behavior is close to 304 grade and better than 410 grade. The main applications are those of VIRGO 17.4 PH grade i.e. mechanical components and offshore industry when considering heavy plates. Information provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industeel-VIRGO-155PH-15Cr-5Ni-3Cu-Precipitation-Hardening-Martensitic-Stainless-Steel-496C-4-hours-air-cooling.php

Physical Properties	Metric	English	Comments
Density	7.80 g/cc	0.282 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 1170 MPa	>= 170000 psi	Minimum Guaranteed
	1310 MPa	190000 psi	Typical
Tensile Strength, Yield	>= 1070 MPa	>= 155000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	1207 MPa	175100 psi	Typical
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	>= 8.0 %	>= 8.0 %	
	14 %	14 %	Typical

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.070 %	<= 0.070 %	
Chromium, Cr	15 %	15 %	
Copper, Cu	3.5 %	3.5 %	
Iron, Fe	76.63 - 76.7 %	76.63 - 76.7 %	As remainder
Nickel, Ni	4.5 %	4.5 %	
Niobium, Nb (Columbium, Cb)	0.30 %	0.30 %	

Component Elements Properties

Metric

English

Comments

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