

## Ametek 17-4 P/M Process, Sintered at 2200°F (1204°C)

Category : Metal , Ferrous Metal , Stainless Steel , Precipitation Hardening Stainless

### Material Notes:

Composition reported is typical of 17-4 precipitation hardening stainless. This alloy is widely used because of its high strength, high hardness, excellent corrosion resistance, and easy heat treatment. The 17-4 PH alloy is used in aerospace, medical, food processing, and chemical industries for applications such as pump shafts, valve stems, braces, fasteners, coupling, rocket and missile components, hydraulic actuators, and wear rings. Mechanical property data below is from samples aged for 1 hour at 900°F (482°C) in hydrogen - the H900 condition, which maximizes strength. The properties that can be expected for material that was lubricated with 3/4% Acrawax C and compacted at 48 tsi are shown below. 17-4 PH is a registered trademark of Armco, Inc.; information provided by Ametek Specialty Metal Product Division.

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[http://www.lookpolymers.com/polymer\\_Ametek-17-4-PM-Process-Sintered-at-2200F-1204C.php](http://www.lookpolymers.com/polymer_Ametek-17-4-PM-Process-Sintered-at-2200F-1204C.php)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	100	100	
Tensile Strength, Ultimate	860 MPa	125000 psi	
Tensile Strength, Yield	610 MPa	88500 psi	
Elongation at Break	1.6 %	1.6 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.035 %	0.035 %	
Chromium, Cr	16.3 %	16.3 %	
Copper, Cu	4.0 %	4.0 %	
Iron, Fe	74 %	74 %	as balance
Manganese, Mn	0.50 %	0.50 %	
Nickel, Ni	4.0 %	4.0 %	
Niobium, Nb (Columbium, Cb)	0.30 %	0.30 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	0.015 %	0.015 %	

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