

AK Steel 15-5 PH® Precipitation Hardening Stainless Steel, Condition H 1150-M

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

Material Notes:

AK Steel 15-5 PH® provides high strength, good corrosion resistance, good mechanical properties at temperatures up to 600°F (316°C), and good toughness in both base metal and welds. Short-time, low-temperature heat treatments minimize distortion and scaling. AK Steel 15-5 PH® is the ferrite-free version of AK Steel 17-4 PH® Stainless Steel. Both alloys are widely used in the aerospace, chemical, petrochemical, food processing, paper and general metalworking industries. The material supplied from the mill is in Condition A. After fabrication eight standard heat treatments have been developed to provide a wide range of properties. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-15-5-PH-Precipitation-Hardening-Stainless-Steel-Condition-H-1150-M.php

Physical Properties	Metric	English	Comments
Density	7.82 g/cc	0.283 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	31	31	Longitudinal
	31	31	Transverse
Tensile Strength, Ultimate	938 MPa	136000 psi	Longitudinal
	944 MPa	137000 psi	Transverse
Tensile Strength, Yield	765 MPa @Strain 0.200 %	111000 psi @Strain 0.200 %	Longitudinal
	765 MPa @Strain 0.200 %	111000 psi @Strain 0.200 %	Transverse
Elongation at Break	17.8 %	17.8 %	in 2 inches, Transverse
	18.8 %	18.8 %	in 2 inches, Longitudinal

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.070 %	<= 0.070 %	
Chromium, Cr	14 - 15.5 %	14 - 15.5 %	
Copper, Cu	2.5 - 4.5 %	2.5 - 4.5 %	
Iron, Fe	71.91 - 79.85 %	71.91 - 79.85 %	As Remainder
Manganese, Mn	<= 1.0 %	<= 1.0 %	

Component Elements Properties	Metric	English	Comments
Nickel, Ni	3.5 - 5.5 %	3.5 - 5.5 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China