

ATI Allegheny Ludlum Relay Steels No. 5

Category : Metal

Material Notes:

Silicon and iron alloy Applications: relays, armatures, solenoids, magnetic clutches, pole pieces, certain types of motors, transformers, data processing equipment. Information provided by Allegheny Ludlum

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Relay-Steels-No-5.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.65 g/cc	7.65 g/cc	Assumed for magnetic purposes per ASTM test specifications
Density	7.64 g/cc	0.276 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	75 - 90	75 - 90	
Tensile Strength, Ultimate	530.9 MPa	77000 psi	
Tensile Strength, Yield	441.2 MPa @Strain 0.200 %	63990 psi @Strain 0.200 %	
Elongation at Break	25 %	25 %	in 2"

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.40 %	0.40 %	
Silicon, Si	2.25 %	2.25 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000400 ohm-cm	0.0000400 ohm-cm	
Magnetic Coercive Force, Hc	0.17 Oe	0.17 Oe	1850°F, 4 hours, Dry Hydrogen
Magnetic Saturation Flux Density, Bmax	20300 Gauss	20300 Gauss	Saturation Induction
Magnetic Remanence, Br	8400 Gauss	8400 Gauss	1850°F, 4 hours, Dry Hydrogen
Curie Temperature	740 °C	1360 °F	

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