

ATI Allegheny Ludlum Relay Steels No. 2

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-2.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.75 g/cc	7.75 g/cc	Assumed for magnetic purposes per ASTM test specifications
Density	7.723 g/cc	0.2790 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	65 - 80	65 - 80	
Tensile Strength, Ultimate	455.1 MPa	66010 psi	
Tensile Strength, Yield	330.9 MPa @Strain 0.200 %	47990 psi @Strain 0.200 %	
Elongation at Break	31 %	31 %	in 2"

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.25 %	0.25 %	
Silicon, Si	1.25 %	1.25 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000300 ohm-cm	0.0000300 ohm-cm	
Magnetic Coercive Force, Hc	0.44 Oe	0.44 Oe	1550°F, 4 hours, Wet Forming Gas
Magnetic Saturation Flux Density, Bmax	20600 Gauss	20600 Gauss	Saturation Induction
Magnetic Remanence, Br	10300 Gauss	10300 Gauss	1550°F, 4 hours, Wet Forming Gas
Curie Temperature	760 °C	1400 °F	

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