AK Steel DI-MAX® HF-10 Nonoriented Electrical Steel

Category : Metal , Electronic/Magnetic Alloy , Ferrous Metal

Material Notes:

DI-MAX HF-10 is a fully processed nonoriented electrical steel designed for use in high speed motors, traction motors, aircraft generators, and other rotating equipment operating at frequencies above 60 Hz. DI-MAX HF-10 Electrical Steel is supplied in a nominal thickness of 0.25 mm (0.010 in).Information provided by AK Steel.

Order this product through the following link:
http://www.lookpolymers.com/polymer_AK-Steel-DI-MAX-HF-10-Nonoriented-Electrical-Steel.php

Physical Properties	Metric	English	Comments
Density	7.65 g/cc	0.276 lb/in³	ASTM A34
Thickness	250 microns	9.84 mil	Aim

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	78	78	
Tensile Strength, Ultimate	450 MPa	65300 psi	
Tensile Strength, Yield	350 MPa	50800 psi	
Elongation at Break	20 %	20 %	In 2"

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.70 %	0.70 %	
Iron, Fe	96.65 %	96.65 %	As Balance
Silicon, Si	2.65 %	2.65 %	

Electrical Properties	Metric	English	Comments
Exciting Power	0.0226 VA/lb @Magnetic Field 0.100 T, Frequency 50.0 Hz	0.0226 VA/lb @Magnetic Field 0.100 T, Frequency 50.0 Hz	ASTM A343, ASTM A348, 50/50, As-Sheared
	297.27 VA/lb @Magnetic Field 1.70 T, Frequency 200 Hz	297.27 VA/lb @Magnetic Field 1.70 T, Frequency 200 Hz	ASTM A343, ASTM A348, 50/50, Stress Relief Annealed
Electrical Resistivity	0.0000540 - 0.0000560 ohm-cm	0.0000540 - 0.0000560 ohm-cm	

Magnetic Properties	Metric	English	Comments
Core Loss	0.0123 W/kg @Magnetic Field 0.100 T, Frequency 50.0 Hz	0.00558 W/lb @Magnetic Field 0.100 T, Frequency 50.0 Hz	ASTM A343, ASTM A348, 50/50, As-Sheared
	843 W/kg @Magnetic Field 1.00 T, Frequency 5000 Hz	382 W/lb @Magnetic Field 1.00 T, Frequency 5000 Hz	ASTM A343, ASTM A348, 50/50, Stress Relief Annealed

Descriptive Properties	Value	Comments
Magnetic Induction at 5000 A/m (T)	1.65	
Saturation Induction (T)	1.99	

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