

H.C. Starck Ampersint® MAP FeNi 50/50 For Soft Magnets

Category : Metal , Electronic/Magnetic Alloy , Nonferrous Metal , Nickel Alloy

Material Notes:

High-temperature, oxidation-resistant, abrasion-resistant and biocompatible materials can be processed with all standard powder metallurgical technologies. The customized alloy can be supplied as a ready-to-process Ampersint® Map powder.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-Ampersint-MAP-FeNi-5050-For-Soft-Magnets.php

Physical Properties	Metric	English	Comments
Density	8.25 g/cc	0.298 lb/in ³	
Porosity	<= 3 %	<= 3 %	sintered

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	650 MPa	94300 psi	
	@Temperature 600 Â°C	@Temperature 1110 Â°F	
	700 MPa	102000 psi	
	@Temperature 400 Â°C	@Temperature 752 Â°F	
	710 MPa	103000 psi	
	@Temperature 200 Â°C	@Temperature 392 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.0 %	1.0 %	
Iron, Fe	49 - 51 %	49 - 51 %	
Nickel, Ni	49 - 51 %	49 - 51 %	

Electrical Properties	Metric	English	Comments
Magnetic Permeability	12950	12950	
Magnetic Coercive Force, Hc	0.502 Oe	0.502 Oe	
Magnetic Saturation Flux Density, Bmax	14500 Gauss	14500 Gauss	

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