

H.C. Starck Ampersint® MAP FeCoNi 70/10/20 For Hardmetals

Category : Metal , Ferrous Metal

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-FeCoNi-701020-For-Hardmetals.php

Physical Properties	Metric	English	Comments
Particle Size	1.0 - 2.0 μm	1.0 - 2.0 μm	FSSS

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	650 MPa	94300 psi	
	@Temperature 600 $^{\circ}\text{C}$	@Temperature 1110 $^{\circ}\text{F}$	
	700 MPa	102000 psi	
	@Temperature 400 $^{\circ}\text{C}$	@Temperature 752 $^{\circ}\text{F}$	
	710 MPa	103000 psi	
	@Temperature 200 $^{\circ}\text{C}$	@Temperature 392 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.10 %	0.10 %	
Cobalt, Co	9.0 - 11 %	9.0 - 11 %	
Iron, Fe	69 - 71 %	69 - 71 %	
Nickel, Ni	19 - 21 %	19 - 21 %	

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