

H.C. Starck MoCu 80/20 Molybdenum-Copper Composite Material

Category : Metal , Metal Matrix Composite , Nonferrous Metal , Molybdenum Alloy , Refractory Metal

Material Notes:

Description of Product: Molybdenum-copper composite materials are produced by copper infiltration of porous sintered molybdenum. They are available with different copper contents (15 - 35 %). A thermal conductivity over 200 W/m K is producible. Range of Application: Switching contacts for high-voltage and medium-voltage, heat sinks for passive thermal management, electrodes for erosive processing. Information provided by H.C. Starck.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-MoCu-8020-Molybdenum-Copper-Composite-Material.php

Physical Properties	Metric	English	Comments
Density	9.70 - 10.1 g/cc	0.350 - 0.365 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	135 - 175	135 - 175	2.5 mm ball
	@Load 62.5 kg	@Load 138 lb	
Tensile Strength, Ultimate	>= 300 MPa	>= 43500 psi	
Modulus of Elasticity	220 GPa	31900 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.30 Åµm/m-Å°C	3.50 Åµin/in-Å°F	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
	6.40 Åµm/m-Å°C	3.56 Åµin/in-Å°F	
	@Temperature 20.0 - 300 Å°C	@Temperature 68.0 - 572 Å°F	
	6.60 Åµm/m-Å°C	3.67 Åµin/in-Å°F	
	@Temperature 20.0 - 450 Å°C	@Temperature 68.0 - 842 Å°F	
	>= 170 W/m-K	>= 1180 BTU-in/hr-ftÅ²-Å°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	18 - 22 %	18 - 22 %	
Molybdenum, Mo	78 - 82 %	78 - 82 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0000042 ohm-cm	0.0000042 ohm-cm	

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