MetaFoam Metal Foam

Category : Metal , Metal Foam, Mesh, or Honeycomb

Material Notes:

General Description:MetaFoamÂ® Technologies intends to revolutionize the open-cell metal foams industry by alleviating the major constraints of â€œconventionalâ€ metal foams. MetaFoam can significantly increase specific surface area and repeatability, while maintaining the lowest production costs. MetaFoam is uniquely positioned to develop products and address several needs in various industries and markets.Applications:There are plenty of fields of applications for open-cell metal foams, including:Thermal management and heat transferElectrochemistry and catalystsWater and air purification/filtrationBiomedical implantsFlow control devicesAcoustic For now, MetaFoam is focusing on particular applications:Metal foam wicking structure for cylindrical, flat, and loop heat pipes that perform in any orientationCold plates with a metal foam core for electronics cooling without the high cost of micromatchingHigh surface area boiling / evaporator plates for increased critical heat fluxesHigh surface area porous electrodes to increase electrochemical reaction efficiencyWater purification with copper-silver foams, two metals having renowned properties against bacteria and algae.

Order this product through the following link:
http://www.lookpolymers.com/polymer_MetaFoam-Metal-Foam.php

Physical Properties	Metric	English	Comments
Porosity	65 - 95 %	65 - 95 %	

Descriptive Properties	Value	Comments
Nusselt Number in Air	2100	at ReH of 10,000
	4000	at ReH of 50,000
Pores diameter, mm	0.2-2	
slabs size, cm	15x15	
slabs thickness, mm	1-50	
Sound Absorption	>90%	at over 1kHz
Sound Reduction	>40dB(A)	at over 300Hz
Surface Area, m^2/m^3	10000-100000	
Tortuosity	1.2-1.4	
Windows diameter, Âµm	40-120	

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