

FloMet Permalloy® 4-79 Moly Soft Magnetic Alloy

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

Material Notes:

FloMet provides precision miniature components through metal injection molding (MIM). Metal powders are mixed with thermoplastic binders to form a homogeneous mixture, with approximately 60% volume metal powder and 40% volume plastic. The mixture (referred to as feedstock) is then injection molded at relatively low temperatures and pressures in conventional plastic injection molding machines. The molded green parts are then thermally processed in two steps. First, the binder is removed by evaporation in an operation called debinding. Next, the part is sintered in a dry hydrogen atmosphere, which densifies the part isotropically. The complex shape of the original molded part is retained throughout the process, and close tolerances can be achieved. Density is typically 95-98% of the wrought metal; mechanical properties and corrosion resistance are similar to wrought material. Information provided by FloMet LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_FloMet-Permalloy-4-79-Moly-Soft-Magnetic-Alloy.php

Component Elements Properties	Metric	English	Comments
Iron, Fe	17 %	17 %	As remainder
Molybdenum, Mo	4.0 %	4.0 %	
Nickel, Ni	79 %	79 %	

Electrical Properties	Metric	English	Comments
Magnetic Permeability	≤ 82000	≤ 82000	μ_{max} in G/Oe with a magnetizing field of 25 Oe.
Magnetic Coercive Force, Hc	0.040 Oe	0.040 Oe	
Magnetic Saturation Flux Density, Bmax	6300 Gauss	6300 Gauss	Magnetizing field of 25 Oe.
	6800 Gauss	6800 Gauss	Magnetizing field of 500 Oe.
Magnetic Remanence, Br	4400 Gauss	4400 Gauss	Magnetizing field of 25 Oe.

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