

## PSM Industries Pacific Sintered Metals Silicon Iron FS-1603 Powdered Metal

Category : Metal , Electronic/Magnetic Alloy , Ferrous Metal

**Material Notes:**

DC magnetic applications such as armatures, relays, solenoids, pole pieces and cores. Possible AC uses  
Information Provided by Pacific Sintered Metals, a division of PSM Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PSM-Industries-Pacific-Sintered-Metals-Silicon-Iron-FS-1603-Powdered-Metal.php](http://www.lookpolymers.com/polymer_PSM-Industries-Pacific-Sintered-Metals-Silicon-Iron-FS-1603-Powdered-Metal.php)

Physical Properties	Metric	English	Comments
Density	7.00 - 7.30 g/cc	0.253 - 0.264 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	448 MPa	65000 psi	
Elongation at Break	9.5 %	9.5 %	1 in. gauge

Electrical Properties	Metric	English	Comments
Magnetic Permeability	<= 9.1	<= 9.1	K-Gauss/Oe
Magnetic Coercive Force, Hc	1.1 Oe	1.1 Oe	
Magnetic Saturation Flux Density, Bmax	11.9 Gauss	11.9 Gauss	
Magnetic Remanence, Br	5.1 Gauss	5.1 Gauss	

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