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Injection Bonded SmCo Magnet

The injection bonded SmCo magnet has a high mechanical strength and may be molded together with other matching parts. In all injection bonded SmCo magnet is produced with high efficiency, stability and repeatability; Magnet and other part may form together in one step. Injection bonded SmCo magnet is a functional material. It is unsuitable for structure part design. So the usual requirement to the tolerance of the dimensions for structure part is not applicable to it. Injection bonded SmCo magnet has strong anticorrosion function. So it doesn't need similar surface treatment as that of NdFeB magnet.

Characteristics & Application of Injection Bonded SmCo Magnet:

Characteristics: Having high dimensional precision; Versatile shapes and specification; Impact-resistant. Advanced surface treatment technology, effectively protect. Integrated forming

Applications: Copier and laser printer rolls; Permanent motor magnets (rotors & other components); Magnetic rings for aerodynamic component; Color Monitor/TV purity convergence magnet, electro acoustic & telecommunication apparatus, electric motors, measure meters, peg-top, electronic watch, microwave apparatus, magnetic mechanism, sensor and other static or dynamic magnetic routes.



Physical & Magnetic properties Of Injection Smco Bonded Magnet

P/N	SCI-3	SCI-3M	SCI-8
Br (mT)	300-400	350~550	550-680
bHc(kA/m)	199-279	247~358	334-462
iHc(kA/m)	716-1194	716~1194	716-1194
(BH)max(kJ/m ³)	20-28	32~52	48-64
Recoil permeability μ_r	1.05-1.1	1.05-1.1	1.05-1.1
Recoil temperature coefficient of Br. (%/K°C)	-0.04(15-100 °C)	-0.04(15-100 °C)	-0.04(15-100 °C)
Magnetizing field (Ka/m)	≥ 2786	≥ 2786	≥ 2786
Density(g/cm ³)	3-6	3-6	4-6
Ring crushing strength constant (N/mm ²)	> 76	> 76	> 76