

SOFT-MAGNETIC ALLOYS

Advamet® or Advacat® Fe-3%Si Datasheet

Advamet® is a wax/polymer binder system;

Advacat® is a POM based (catalytic) binder system.

Both systems are compliant to MPIF Standard 35: MIM-Fe-3%Si

Typical Chemical Composition (post Sinter)

C (%)	Si (%)	Fe (%)
0.05 max	2.5-3.5	balance

Other elements not to exceed 1.0% combined.

All percentages are in weight percent.

Typical Mechanical Properties

Nominal Typical Values	Density	UTS	YS	Elongation	Mag. Perm	H _c	B _r	B ₂₅	B ₅₀₀
	(g/cm ³)	(ksi)	(ksi)	(in./in.)	μ max	Oe	kG	kG	kG
As-sintered Grade 1	7.62	77	57	24	8,500	0.7	12.0	14.5	19.5
As-sintered Grade 2	7.50	77	57	24	6,000	1.0	12.0	14.5	19.0

Actual results depend on processing – sintering and heat treatment cycles – used.



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