

SOFT-MAGNETIC ALLOYS

Advamet® or Advacat® Fe-50%Co Datasheet

Advamet® is a wax/polymer binder system;

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

Both systems are compliant to MPlF Standard 35: MIM-Fe-50%Co

Typical Chemical Composition (post Sinter)

C (%)	Co (%)	V (%)	Si (%)	Fe (%)
0.05 max	48-50	2.5 max	1.0 max	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	7.75	30	20	<1	5,200	1.5	14.0	20.0	22.0

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



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