

SOFT-MAGNETIC ALLOYS

Advamet® or Advacat® 430L 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-430L

Typical Chemical Composition (post Sinter)

C (%)	Cr (%)	Mn (%)	Si (%)	Fe (%)
0.05 max	16-18	1.0 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	7.55	60	35	25	1,500	1.8	5.5	11.5	15.8

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



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