

LOW-ALLOY STEELS

Advamet® or Advacat® 4340 Datasheet

Advamet® is a wax/polymer binder system.

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

Typical Chemical Composition (post Sinter)

C (%)	Cr (%)	Mo (%)	Ni (%)	Mn (%)	Fe (%)
0.37-0.43	0.7-0.9	0.2-0.3	1.65-2.00	0.8 max ¹	balance

Other elements not to exceed 1.0% combined.

All percentages are in weight percent.

Note 1: Mn may be specified to be between 0.6 – 0.8% by the customer to comply with AISI-SAE 4340 composition.

Typical Mechanical Properties

Nominal Typical Values	Density	UTS	YS	Elongation
	(g/cm ³)	(ksi)	(ksi)	%
As-sintered	7.5	90	70	6
Heat-treated	7.5	230	200	5

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



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