

LOW-ALLOY STEELS

Advamet® or Advacat® 4140 Datasheet

Advamet® is a wax/polymer binder system;

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

MPIF Standard 35: MIM-4140

Typical Chemical Composition (post Sinter)

C (%)	Cr (%)	Mo (%)	Si (%)	Mn (%)	Fe (%)
0.3-0.5	0.8-1.2	0.2-0.3	0.6 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
	(g/cm ³)	(ksi)	(ksi)	(in./in.)
Austempered	7.5	240	180	5

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



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