

LOW-ALLOY STEELS

Advamet® or Advacat® 4605 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-4605.

Typical Chemical Composition (post Sinter)

C (%)	Ni (%)	Mo (%)	Si (%)	Fe (%)
0.4-0.6	1.5-2.5	0.2-0.5	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)	%
As-sintered	7.5	64	30	15
Austempered	7.5	222	197	3

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



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