

STAINLESS STEELS

Advamet® or Advacat® 420 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-420

Typical Chemical Composition (post Sinter)

C (%)	Cr (%)	Mn (%)	Si (%)	Fe (%)
0.15-0.4	12-14	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
	(g/cm ³)	(ksi)	(ksi)	(in./in.)
Heat-treated*	7.4	200	174	<1

*parts were austenized and tempered at 400°F (204

°C) for a minimum of 1 hour

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



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