

# OTHER ALLOYS

## Advamet® or Advacat® MIM 52100 Datasheet

Advamet® is a wax/polymer binder system;  
Advacat® is a POM based (catalytic) binder system.

### Typical Chemical Composition (post Sinter)

C (%)	Cr (%)	Si (%)	Ni (%)	Cu (%)	Mo (%)	P (%)	S (%)	Fe (%)
0.98-1.10	1.30-1.60	0.15-0.30	0.25 max	0.35 max	0.10 max	0.025 max	0.025 max	balance

Other elements not to exceed 1.0% combined. Manganese is an optional element for MIM applications.

All percentages are in weight percent.

### Typical Mechanical Properties

Nominal Typical Values	Density (g/cm <sup>3</sup> )	UTS (ksi)	YS (ksi)	Elongation (in./in.)	Hardness (HRC)
As-sintered	7.5	145	94	5	35 max
Heat Treated	7.5	218	160	2	60-65

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



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