

TOOL STEEL

Advamet® or Advacat® M2 Tool Steel Datasheet

Advamet® is a wax/polymer binder system;

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

Typical Chemical Composition (post Sinter)

C (%)	Cr (%)	Mo (%)	W (%)	V (%)	Si (%)	Mn (%)
0.8-1.1	3.75-4.50	4.5-5.5	5.50-6.75	1.75-2.20	0.25 -0.45	0.15 -0.40

Ni: 0.3% max
P: 0.03% max
Cu: 0.25 % max
Fe: balance
All other elements not to exceed 1.0%.
All percentages are in weight percent.

Typical Mechanical Properties – as sintered

Nominal Typical Values	Density	UTS	YS	Elongation	Hardness
	(g/cm ³)	(MPa)	(MPa)	(%)	(HRC)
	>7.90	700	400	>1	50-63

Actual results depend on processing – sintering cycle – used.

Typical Mechanical Properties – heat treated

Nominal Typical Values	Density	UTS	YS	Elongation	Hardness
	(g/cm ³)	(MPa)	(MPa)	(%)	(HRC)
	>7.90	900	700	>1	60-65

Actual results depend on processing – heat treatment – used.



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