

Tool Steels

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.