

STAINLESS STEELS

Advamet® or Advacat® 17-4PH 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-17-4 PH.

Typical Chemical Composition (post Sinter)

C (%)	Cr (%)	Cu (%)	Si (%)	Mn (%)	Ni (%)	Nb + Ta (%)	Fe (%)
0.7 max	15.5-17.5	3-5	1.0 max	1.0 max	3-5	0.15-0.45	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	Apparent Hardness
	(g/cm ³)	(ksi)	(ksi)	%	HRC
As-sintered	7.5	130	106	6	27
Heat-treated*	7.5	172	158	6	35

*aged at 900° F (482°C) for 1 hr and air cooled.

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



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