

STAINLESS STEELS

Advamet® or Advacat® 440 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-440

Typical Chemical Composition (post Sinter)

| C (%) | Cr (%) | Mo (%) | Si (%) | Mn (%) | Ni (%) | Nb (%) | Fe (%) |
|----------|--------|----------|---------|---------|---------|---------|---------|
| 0.9-1.25 | 16-18 | 0.75 max | 1.0 max | 1.0 max | 0.6 max | 3.5 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* | 7.5 | 190 | 170 | <1 |

*austenized, oil quenched and tempered at 325°F (160°C) for 2 hours

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



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