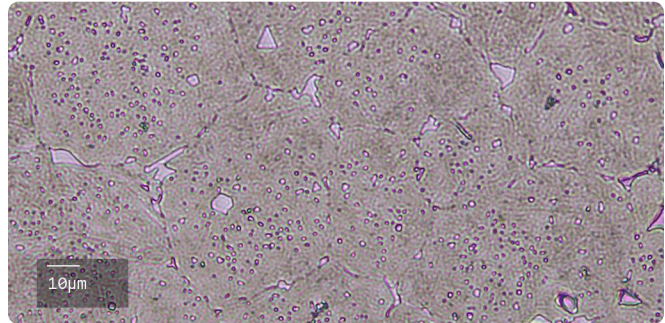
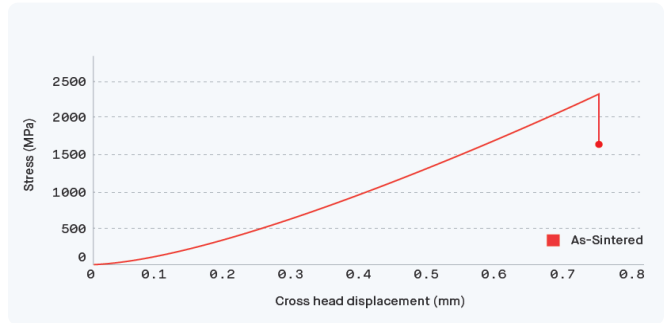


[Material Data Sheet]

# M2

## Tool Steel

### PureSinter Furnace



**COMPOSITION %**

C	0.78 - 1.05
Cr	3.75 - 4.50
Mo	4.50 - 5.50
V	1.75 - 2.20
W	5.50 - 6.75
Mn	0.15 - 0.40
Si	0.20 - 0.45
Fe	Balance

**MECHANICAL PROPERTIES IN DESKTOP METAL PURESINTER FURNACE**

	Standard	X-Series™ Quenched & Triple Tempered
Hardness (HRC)	ASTM E18	60.9 ± 0.6
Density (g/cm³)		8.11 ± 0.003
TRS strength (GPa)	MPIF 41 / ASTM B528	2.32 ± 0.22

**ATTRIBUTES & APPLICATIONS**

Hardenable tough high speed tool steel  
Cutting tools, mills, drills, reamers, dies

**OTHER STANDARD DESIGNATIONS**

AISI Type M2  
UNS T11302

- YS, UTS, Elongation, and Young's modulus properties noted represent Xy orientation
- Listed designations are for reference purposes only. Composition and mechanical properties may vary.
- Per MPIF Standard 35, Materials Standards for Metal Injection Molded Parts (MPIF 35-MIM, 2018). End-use material performance is impacted (+/-) by certain factors including but not limited to part geometry and design, application and evaluation conditions, etc.

[Material Data Sheet]

# M2

## Tool Steel

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**COMPOSITION %**

C	0.78 - 1.05
Cr	3.75 - 4.50
Mo	4.50 - 5.50
V	1.75 - 2.20
W	5.50 - 6.75
Mn	0.15 - 0.40
Si	0.20 - 0.45
Fe	Balance

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**MECHANICAL PROPERTIES SINTERED IN THIRD-PARTY COMMERCIAL FURNACE**

	X-Series™ Heat-Treated
Relative Density (%)	98.5 - 99.5
Density (g/cc)	8.03 - 8.08
Hardness (HRC)	62 - 65

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