

# SUPREME STEEL INDUSTRIES



## AISI Type M42 Molybdenum High Speed Tool Steel (UNS T11342)

Categories: [Metal](#); [Ferrous Metal](#); [Tool Steel](#)

**Material Notes:** Used in high speed tool and cutting applications such as drills, milling processes, reamers, etc. Mo content promotes toughness, but requires more precise hardening conditions and caution about overheating.

**Vendors:** No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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Component Elements Properties	Metric	English	Comments
Carbon, C	1.05 - 1.15 %	1.05 - 1.15 %	
Chromium, Cr	3.5 - 4.25 %	3.5 - 4.25 %	
Cobalt, Co	7.75 - 8.75 %	7.75 - 8.75 %	
Copper, Cu	<= 0.25 %	<= 0.25 %	
Iron, Fe	70.99 - 76.3 %	70.99 - 76.3 %	
Manganese, Mn	0.15 - 0.40 %	0.15 - 0.40 %	
Molybdenum, Mo	9.0 - 10 %	9.0 - 10 %	
Nickel, Ni	<= 0.30 %	<= 0.30 %	
Phosphorous, P	<= 0.030 %	<= 0.030 %	
Silicon, Si	0.15 - 0.65 %	0.15 - 0.65 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	0.06 to 0.15% may be specified to improve machinability
Tungsten, W	1.15 - 1.85 %	1.15 - 1.85 %	
Vanadium, V	0.95 - 1.35 %	0.95 - 1.35 %	

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