

## M2 HIGH SPEED STEEL

Wolfram (Tungsten) Molybdenum, Vanadium based, well known standard high speed steel with high wear resistance. It shows a high toughness and high hardness. Applications: Cutting tools, twist drills, milling cutters, stamping and cutting tools, broaches, forming tools, woodworking tools, cold extrusion press tools

Colour Code	Stocked Sizes	
	Condition of Delivery	Soft Annealed to max 262HB

### Related Specifications

Australia	
Germany	DIN 1.3343 (S 6-5-2)
Great Britain	
International	
Japan	
USA	AISI M2

### Chemical Composition

Carbon	0.90
Chromium	4.00
Molybdenum	5.00
Vanadium	1.90
Tungsten	6.40

### Physical Properties

Thermal Expansion Co-efficient	
Thermal Conductivity	

### Heat Treatment

Pre Heating Steps	Hardening Temp.	Quenching Medium	Tempering Temp.	Hardness after tempering
a) 1.step at 850°C b) 1.step at 850°C c) 2.step at 1050°C	1180 - 1230°C	a) Hot Bath 550°C+air b) Oil c) Aird) Vacuum	530°C - 570°C at least 3 times	64-66 HRC

### Machining

Excellent

### Corrosion Resistance

Poor

### Soldering

Fair

### Welding

Gas/Arc poor. Not recommended

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