

## Carpenter Micro-Melt® M-3 Class 2 Alloy (AISI M3)

Category : Metal , Ferrous Metal , Tool Steel

### Material Notes:

Micro-Melt® M-3 Class 2 alloy is a powder metal tungsten-molybdenum high-speed steel possessing the superior wear resistance characteristics required for difficult cutting operations. The advantages of Micro-Melt premium powder high speed steels include ease of grinding, response to heat treatment, more uniform structure, greater wear resistance and improved toughness. In addition, Carpenter's unique hot rolling and rotary forging capabilities impart minimal distortion characteristics to these alloys. Applications: Broaches, Form tools, Drills, Counterbores, Milling cutters, End mills, Chasers, Taps, Lathe tools, Planer tools, Reamers. Information provided by Carpenter Technology Corporation. Micro-Melt® is a registered trademark of Carpenter Technology Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Carpenter-Micro-Melt-M-3-Class-2-Alloy-AISI-M3.php](http://www.lookpolymers.com/polymer_Carpenter-Micro-Melt-M-3-Class-2-Alloy-AISI-M3.php)

Physical Properties	Metric	English	Comments
Specific Gravity	8.16 g/cc	8.16 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	57 - 59	57 - 59	Tempered at 1150°F
	65 - 66	65 - 66	As quenched
Modulus of Elasticity	207 GPa	30000 ksi	
Izod Impact Unnotched	32.5 - 42.0 J	24.0 - 31.0 ft-lb	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.25 %	1.25 %	
Chromium, Cr	4.0 %	4.0 %	
Iron, Fe	79.43 %	79.43 %	As Balance
Molybdenum, Mo	6.0 %	6.0 %	
Sulfur, S	0.070 %	0.070 %	
Tungsten, W	6.25 %	6.25 %	
Vanadium, V	3.0 %	3.0 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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