

## Crucible Steel Rex M2 High Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

### Material Notes:

Rex M2 is a tungsten-molybdenum general purpose high speed steel. It is suitable for a wide variety of cutting tools and is often used for metalforming tools such as punches and dies. Rex M2 is a good choice for cutting tools which require moderate feeds and speeds. It provides sufficient red hardness along with outstanding toughness for a high speed steel. For cold work applications, Rex M2 offers higher hardness and wear resistance than D2. Its high attainable hardness provides superior compressive strength for deformation resistance, reducing susceptibility to such problems as peening, denting and edge rollover. Its high tempering temperature and red hardness make it an excellent substrate for most surface treatments. Information provided by Crucible Specialty Metals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Crucible-Steel-Rex-M2-High-Speed-Steel.php](http://www.lookpolymers.com/polymer_Crucible-Steel-Rex-M2-High-Speed-Steel.php)

Physical Properties	Metric	English	Comments
Density	8.14 g/cc	0.294 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	217 - 255	217 - 255	Annealed
Hardness, Rockwell C	61	61	Austenitizing Temperature- 1150°C; Tempering Temperature- 580°C
	64	64	Austenitizing Temperature- 1190°C; Tempering Temperature- 550°C
Modulus of Elasticity	207 GPa	30000 ksi	
Charpy Impact	23.0 J	17.0 ft-lb	Austenitizing Temperature- 1190°C; Tempering Temperature- 550°C
	28.0 J	20.7 ft-lb	Austenitizing Temperature- 1150°C; Tempering Temperature- 580°C

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 µm/m-°C	6.28 µin/in-°F	
	@Temperature 40.0 - 260 °C	@Temperature 104 - 500 °F	
	12.5 µm/m-°C	6.94 µin/in-°F	
	@Temperature 40.0 - 540 °C	@Temperature 104 - 1000 °F	
Shrinkage	-0.220 - -0.150 %	-0.220 - -0.150 %	

Component Elements Properties	Metric	English	Comments
Carbon, C			

Component Elements Properties	0.85 % Metric	0.85 % English	Comments
Chromium, Cr	4.15 %	4.15 %	
Iron, Fe	81.65 %	81.65 %	As Remainder
Molybdenum, Mo	5.0 %	5.0 %	
Tungsten, W	6.4 %	6.4 %	
Vanadium, V	1.95 %	1.95 %	

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