

Crucible Steel REX® M2 S High Speed Steel

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

REX M2 is a tungsten-molybdenum high speed steel which gives outstanding performance in all operations where a general purpose high speed steel is required. REX M2 has a wide hardening range, excellent toughness, with good wear and red hardness characteristics. REX M2S is the sulfur-bearing counterpart of REX M2. The sulfur addition provides good grindability and an improvement in machinability of 25 to 35 per cent over a comparable nonsulfurized grade. Information provided by Crucible Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-REX-M2-S-High-Speed-Steel.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	217 - 255	217 - 255	
Hardness, Rockwell C	57	57	hardened at 2250°F then tempered
	@Tempering Temp. 649 °C	@Tempering Temp. 1200 °F	
	59	59	hardened at 2250°F then tempered
	@Tempering Temp. 635.0 °C	@Tempering Temp. 1175 °F	
	60.9	60.9	hardened at 2250°F then tempered
	@Tempering Temp. 621 °C	@Tempering Temp. 1150 °F	
	62.4	62.4	hardened at 2250°F then tempered
	@Tempering Temp. 607.2 °C	@Tempering Temp. 1125 °F	
	64	64	hardened at 2250°F then tempered
	@Tempering Temp. 593 °C	@Tempering Temp. 1100 °F	
	65	65	hardened at 2250°F then tempered
	@Tempering Temp. 579.4 °C	@Tempering Temp. 1075 °F	
	66	66	hardened at 2250°F then tempered
	@Tempering Temp. 524 °C	@Tempering Temp. 975 °F	
	66	66	

Mechanical Properties	Metric	English	Comments
	@ Tempering Temp. 566 °C	@ Tempering Temp. 1050 °F	hardened at 2250°F then tempered
	66.8	66.8	
	@ Tempering Temp. 538 °C	@ Tempering Temp. 1000 °F	hardened at 2250°F then tempered
	66.8	66.8	
	@ Tempering Temp. 551.7 °C	@ Tempering Temp. 1025 °F	hardened at 2250°F then tempered
Modulus of Elasticity	207 GPa	30000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.5 µm/m-°C	6.40 µin/in-°F	
	@ Temperature 21.1 - 260 °C	@ Temperature 70.0 - 500 °F	
	11.8 µm/m-°C	6.58 µin/in-°F	
	@ Temperature 21.1 - 427 °C	@ Temperature 70.0 - 800 °F	
	12.1 µm/m-°C	6.72 µin/in-°F	
	@ Temperature 21.1 - 538 °C	@ Temperature 70.0 - 1000 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.85 %	0.85 %	
Chromium, Cr	4.15 %	4.15 %	
Iron, Fe	>= 81 %	>= 81 %	as balance
Manganese, Mn	0.30 %	0.30 %	
Molybdenum, Mo	5.0 %	5.0 %	
Silicon, Si	0.30 %	0.30 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Tungsten, W	6.4 %	6.4 %	
Vanadium, V	1.95 %	1.95 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	832 °C	1530 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China