

Crucible Steel REX® M2 S 1.0C High Speed Steel, AISI M2

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

REX M2S (1.0C) is a sulfur-bearing high carbon version of the regular CRUCIBLE REX M2 high speed steel. The sulfur addition provides good grindability and an improvement in machinability of 25 to 35 percent over a comparable nonsulfurized grade. The increase in carbon content produces higher attainable hardness, increased wear resistance and red hardness which contribute to significant gains in cutting tool performance. The higher carbon offers improved hardenability in larger tool sections. Information provided by Crucible Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-REX-M2-S-10C-High-Speed-Steel-AISI-M2.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	229 - 255	229 - 255	
Hardness, Rockwell C	61	61	oil quenched from 2200°F then tempered
	@Tempering Temp. 607.2 °C	@Tempering Temp. 1125 °F	
	63	63	oil quenched from 2200°F then tempered
	@Tempering Temp. 593 °C	@Tempering Temp. 1100 °F	
	64.3	64.3	oil quenched from 2200°F then tempered
	@Tempering Temp. 579.4 °C	@Tempering Temp. 1075 °F	
65.5	65.5	oil quenched from 2200°F then tempered	
@Tempering Temp. 566 °C	@Tempering Temp. 1050 °F		
66	66	oil quenched from 2200°F then tempered	
@Tempering Temp. 538 °C	@Tempering Temp. 1000 °F		
66	66	oil quenched from 2200°F then tempered	
@Tempering Temp. 551.7 °C	@Tempering Temp. 1025 °F		
Modulus of Elasticity	207 GPa	30000 ksi	

Thermal Properties	Metric	English	Comments
	11.5 µm/m-°C	6.40 µin/in-°F	

Thermal Properties	Metric	English	Comments
	@ 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	1.0 %	1.0 %	
Chromium, Cr	4.15 %	4.15 %	
Iron, Fe	80.8 %	80.8 %	as balance
Manganese, Mn	0.30 %	0.30 %	
Molybdenum, Mo	5.0 %	5.0 %	
Silicon, Si	0.30 %	0.30 %	
Sulfur, S	0.10 %	0.10 %	
Tungsten, W	6.4 %	6.4 %	
Vanadium, V	1.95 %	1.95 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	829.4 °C	1525 °F	

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