

Latrobe HS-29XL, ç ASTM M2-HC High Speed Steel

Category : Metal , Ferrous Metal , Alloy Steel , Carbon Steel , High Carbon Steel , Tool Steel

Material Notes:

HS-29XL (M2-HC) is the M2 composition with the carbon content increased and with the addition of alloy sulfides. The higher carbon content provides higher hardness and superior red hardness compared to standard-carbon M2. The alloy sulfides improve machinability and grindability and make it possible to produce accurately-machined tools without grinding after hardening. Because of the increased carbon content and higher attainable hardness, HS-29XL exhibits abrasion resistance that is similar to M3-1 high speed steel. Information Provided by Timken Latrobe Steel. Timken sold Latrobe in December 2006. They are now Latrobe Specialty Steels Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Latrobe-HS-29XL-ASTM-M2-HC-High-Speed-Steel.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	65.2	65.2	Oil Quenched from 1218 ^o C
	65.6	65.6	Oil Quenched from 1177 ^o C
	65.8	65.8	Oil Quenched from 1149 ^o C
Modulus of Elasticity	207 GPa	30000 ksi	
Machinability	50 - 60 %	50 - 60 %	1% Carbon Steel
Izod Impact Unnotched	29.8 J	22.0 ft-lb	Oil Quenched at 1177 ^o C; 520 ^o C Temper Temperature
	30.5 J	22.5 ft-lb	Oil Quenched at 1204 ^o C; 580 ^o C Temper Temperature
	30.5 J	22.5 ft-lb	Oil Quenched at 1204 ^o C; 650 ^o C Temper Temperature
	32.5 J	24.0 ft-lb	Oil Quenched at 1204 ^o C; 482 ^o C Temper Temperature
	37.3 J	27.5 ft-lb	Oil Quenched at 1177 ^o C; 650 ^o C Temper Temperature
	43.4 J	32.0 ft-lb	Oil Quenched at 1177 ^o C; 482 ^o C Temper Temperature

Thermal Properties	Metric	English	Comments
CTE, linear	10.95 Åµm/m-Å°C	6.083 Åµin/in-Å°F	

Thermal Properties	@Temperature 21.0 - Metric 204 Â°C	@Temperature 69.8 - English 399 Â°F	Comments
	12.54 Âµm/m-Â°C	6.967 Âµin/in-Â°F	
	@Temperature 21.0 - 358 Â°C	@Temperature 69.8 - 676 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.98 %	0.98 %	
Chromium, Cr	4.15 %	4.15 %	
Iron, Fe	81.29 %	81.29 %	
Manganese, Mn	0.28 %	0.28 %	
Molybdenum, Mo	5.0 %	5.0 %	
Silicon, Si	0.30 %	0.30 %	
Tungsten, W	6.15 %	6.15 %	
Vanadium, V	1.85 %	1.85 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	830 Â°C	1530 Â°F	Ac1

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