

Latrobe LSS, Ç Chipper Knife Tool Steel (ASTM A8 Mod.)

Category : Metal , Ferrous Metal , Alloy Steel , Tool Steel , Air-Hardening Steel

Material Notes:

TLS Chipper Knife tool steel is an air-hardening, 8% chromium tool steel which exhibits very good wear resistance and toughness. TLS Chipper Knife exhibits wear resistance which is better than that of S7, and toughness which is better than that of D2. Typical applications include wood chipper knives, slitter knives, scrap shears, plastic granulator knives, tire shredding knives, shear blades, planer knives, punches, and fineblanking dies. 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-LSS-Chipper-Knife-Tool-Steel-ASTM-A8-Mod.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.75 g/cc	7.75 g/cc	
Density	7.72 g/cc	0.279 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	59	59	Air Cooled from 1010 ^o C, 30 minutes
	60	60	Air Cooled from 1038 ^o C, 30 minutes
	61	61	Air Cooled from 1052 ^o C, 20 minutes
Modulus of Elasticity	200 GPa	29000 ksi	
Machinability	70 - 75 %	70 - 75 %	1% Carbon Steel

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 $\mu\text{m/m}\cdot\text{C}$	6.28 $\mu\text{in/in}\cdot\text{F}$	
	@Temperature 20.0 - 400 C	@Temperature 68.0 - 752 F	
	11.6 $\mu\text{m/m}\cdot\text{C}$	6.44 $\mu\text{in/in}\cdot\text{F}$	
	@Temperature 20.0 - 200 C	@Temperature 68.0 - 392 F	
Thermal Conductivity	26.1 W/m-K	181 BTU-in/hr-ft ² - F	
	@Temperature 20.0 C	@Temperature 68.0 F	
	27.1 W/m-K	188 BTU-in/hr-ft ² - F	
	@Temperature 200 C	@Temperature 392 F	
	28.6 W/m-K	198 BTU-in/hr-ft ² - F	

Thermal Properties	Metric @ Temperature 400 Â°C	English @ Temperature 752 Â°F	Comments
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Component Elements Properties	Metric	English	Comments
Carbon, C	0.50 %	0.50 %	
Chromium, Cr	8.0 %	8.0 %	
Iron, Fe	88.35 %	88.35 %	
Manganese, Mn	0.45 %	0.45 %	
Molybdenum, Mo	1.3 %	1.3 %	
Silicon, Si	0.95 %	0.95 %	
Vanadium, V	0.45 %	0.45 %	

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