

Latrobe LSS,ç D5 Tool Steel (ASTM D5)

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

Material Notes:

TLS D5 tool steel is an air hardening, high-carbon, high-chromium, tool steel that is characterized by a cobalt addition which provides unique resistance to galling and pick-up. The cobalt also imparts some resistance to tempering, which makes TLS D5 suitable for some semi-hot work tooling applications. 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-D5-Tool-Steel-ASTM-D5.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.73 g/cc	7.73 g/cc	
Density	7.72 g/cc	0.279 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	62	62	Air Cooled from 1038 ^o C, 30 minutes
	62.5	62.5	Air Cooled from 982 ^o C, 45 minutes
	63	63	Air Cooled from 996 ^o C, 30 minutes
Modulus of Elasticity	207 GPa	30000 ksi	
Machinability	45 - 50 %	45 - 50 %	1% Carbon Steel
Izod Impact Unnotched	54.2 J	40.0 ft-lb	Air Cooled from 1010 ^o C; 483 ^o C Temper Temperature
	70.5 J	52.0 ft-lb	Air Cooled from 1010 ^o C; 145 ^o C Temper Temperature
	119 J	88.0 ft-lb	Air Cooled from 1010 ^o C; 593 ^o C Temper Temperature

Thermal Properties	Metric	English	Comments
CTE, linear	9.88 $\mu\text{m/m-}^{\circ}\text{C}$	5.49 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 38.0 - 260 $^{\circ}\text{C}$	@Temperature 100 - 500 $^{\circ}\text{F}$	
	12.02 $\mu\text{m/m-}^{\circ}\text{C}$	6.678 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 38.0 - 538 $^{\circ}\text{C}$	@Temperature 100 - 1000 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
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Carbon C Component Elements Properties	Metric	English	Comments
Chromium, Cr	11.65 %	11.65 %	
Cobalt, Co	2.8 %	2.8 %	
Iron, Fe	82.4 %	82.4 %	
Manganese, Mn	0.35 %	0.35 %	
Molybdenum, Mo	0.80 %	0.80 %	
Silicon, Si	0.50 %	0.50 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	754 Â°C	1390 Â°F	Ar1
	832 Â°C	1530 Â°F	Ac1

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