

Latrobe LSS™ A6 Tool Steel (ASTM A6)

Category : Metal , Ferrous Metal , Alloy Steel , Medium Alloy Steel , Tool Steel

Material Notes:

TLS A6 tool steel is a medium-alloy, air-hardening tool steel that is characterized by its ability to be through hardened while using the low austenitizing temperatures which are typically associated with oil-hardening tool steels. TLS A6 exhibits good toughness and excellent dimensional stability in heat treatment. TLS A6 is intermediate in wear resistance between O1 oil-hardening tool steel and D2 high-carbon, high-chromium tool steel. Typical applications for TLS A6 tool steel include blanking and forming dies, trim dies, bending and forming tools, mandrels, chuck jaws, tooling for plastic injection molding, dowel pins, shear knives, and gages. 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-A6-Tool-Steel-ASTM-A6.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.83 g/cc	7.83 g/cc	
Density	7.83 g/cc	0.283 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	47	47	Air Cooled from 843°C, 593°C Temper Temperature
	52	52	Air Cooled from 843°C, 427°C Temper Temperature
	62	62	Air Cooled from 843°C, As Quenched
Modulus of Elasticity	207 GPa	30000 ksi	
Machinability	80 %	80 %	1% Carbon Steel
Izod Impact Unnotched	40.7 J	30.0 ft-lb	Air Cooled from 843°C; 150°C Temper Temperature
	102 J	75.0 ft-lb	Air Cooled from 843°C; 316°C Temper Temperature

Thermal Properties	Metric	English	Comments
CTE, linear	13.1 µm/m-°C	7.28 µin/in-°F	
	@Temperature 21.0 - 316 °C	@Temperature 69.8 - 601 °F	
	14.7 µm/m-°C	8.17 µin/in-°F	
	@Temperature 21.0 - 704 °C	@Temperature 69.8 - 1300 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.70 %	0.70 %	
Chromium, Cr	1.0 %	1.0 %	
Iron, Fe	94.75 %	94.75 %	
Manganese, Mn	2.0 %	2.0 %	
Molybdenum, Mo	1.25 %	1.25 %	
Silicon, Si	0.30 %	0.30 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	727 °C	1340 °F	Ac1

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