

Latrobe LSS,ç A9 Tool Steel (ASTM A9)

Category : Metal , Ferrous Metal , Alloy Steel , Tool Steel , Cold Work Steel , Hot Work Steel

Material Notes:

TLS A9 tool steel is a 5% chromium tool steel with a unique combination of properties which make it suitable for both cold work and hot work tooling applications. The combination of nickel, vanadium, and a relatively low carbon content provide excellent toughness and hardenability with good wear resistance. Typical applications for TLS A9 tool steel include shear blades, punches and dies, forming tools, hot upsetting dies, and hot gripper 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-A9-Tool-Steel-ASTM-A9.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.78 g/cc	7.78 g/cc	
Density	7.78 g/cc	0.281 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	40	40	Air Cooled from 996 ^o , 624 ^o C Temper Temperature
	57	57	Air Cooled from 996 ^o , 149 ^o C Temper Temperature
	58	58	Air Cooled from 996 ^o , 449 ^o C Temper Temperature
Modulus of Elasticity	207 GPa	30000 ksi	
Machinability	65 - 70 %	65 - 70 %	1% Carbon Steel

Thermal Properties	Metric	English	Comments
CTE, linear	11.97 $\mu\text{m/m-}^{\circ}\text{C}$	6.650 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 38.0 - 427 $^{\circ}\text{C}$	@Temperature 100 - 801 $^{\circ}\text{F}$	
	12.71 $\mu\text{m/m-}^{\circ}\text{C}$	7.061 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 38.0 - 649 $^{\circ}\text{C}$	@Temperature 100 - 1200 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.50 %	0.50 %	
Chromium, Cr	5.15 %	5.15 %	
Iron, Fe			

Component Elements Properties	88.9 % Metric	88.9 % English	Comments
Manganese, Mn	0.35 %	0.35 %	
Molybdenum, Mo	1.55 %	1.55 %	
Nickel, Ni	1.5 %	1.5 %	
Silicon, Si	1.05 %	1.05 %	
Vanadium, V	1.0 %	1.0 %	

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