

## Latrobe LSS™ P20 Mold Steel (ASTM P20)

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

### Material Notes:

TLS P20 mold steel is a versatile, low-alloy tool steel that is characterized by good toughness at moderate strength levels. The steel is commonly used for plastic injection mold cavities and tooling and for die casting dies for zinc. TLS P20 is typically sold in the prehardened condition at a hardness of approximately 300 HBW. 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-P20-Mold-Steel-ASTM-P20.php](http://www.lookpolymers.com/polymer_Latrobe-LSS-P20-Mold-Steel-ASTM-P20.php)

Physical Properties	Metric	English	Comments
Specific Gravity	7.86 g/cc	7.86 g/cc	
Density	7.86 g/cc	0.284 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	30 - 31	30 - 31	
	@Temperature 621 °C	@Temperature 1150 °F	
	39 - 40	39 - 40	
	@Temperature 538 °C	@Temperature 1000 °F	
	48 - 49	48 - 49	
	@Temperature 204 °C	@Temperature 399 °F	
Modulus of Elasticity	207 GPa	30000 ksi	
Machinability	60 - 65 %	60 - 65 %	1% Carbon Steel

Thermal Properties	Metric	English	Comments
CTE, linear	12.9 µm/m-°C	7.17 µin/in-°F	
	@Temperature 21.0 - 93.0 °C	@Temperature 69.8 - 199 °F	
	13.7 µm/m-°C	7.61 µin/in-°F	
	@Temperature 21.0 - 538 °C	@Temperature 69.8 - 1000 °F	
Thermal Conductivity	41.5 W/m-K	288 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.33 %	0.33 %	

Component Elements Properties	Metric	English	Comments
Iron, Fe	96.07 %	96.07 %	
Manganese, Mn	0.80 %	0.80 %	
Molybdenum, Mo	0.40 %	0.40 %	
Silicon, Si	0.65 %	0.65 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	763 °C	1410 °F	Ac1

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