

## Latrobe LSSâ„ç 2367 Hot Work Tool Steel

Category : Metal , Ferrous Metal , Alloy Steel , Chrome-moly Steel , Tool Steel , Hot Work Steel

### Material Notes:

TLS 2367 is a chromium-molybdenum hot work steel that is similar to AISI H11 hot work steel, but which contains a higher molybdenum content. The higher molybdenum gives TLS 2367 better hot hardness and temper resistance, along with higher attainable hardness and deeper hardenability than the more common H11 and H13 hot work steels. Typical applications include extrusion tooling, hot forging dies, hot heading dies, hot shear blades, hot punches and mandrels, hot gripper dies, and die casting tooling for copper and brass. 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-2367-Hot-Work-Tool-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-LSS-2367-Hot-Work-Tool-Steel.php)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	56	56	Oil Quenched from 1024Â°C, 45 minutes
	57	57	Oil Quenched from 1080Â°C, 20 minutes
Machinability	75 - 80 %	75 - 80 %	1% Carbon Steel

Thermal Properties	Metric	English	Comments
CTE, linear	11.9 Âµm/m-Â°C	6.61 Âµin/in-Â°F	
	@Temperature 20.0 - 100 Â°C	@Temperature 68.0 - 212 Â°F	
	13.1 Âµm/m-Â°C	7.28 Âµin/in-Â°F	
	@Temperature 20.0 - 500 Â°C	@Temperature 68.0 - 932 Â°F	
Thermal Conductivity	27.5 W/m-K	191 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 700 Â°C	@Temperature 1290 Â°F	
	32.2 W/m-K	223 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 350 Â°C	@Temperature 662 Â°F	
	36.4 W/m-K	253 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.38 %	0.38 %	
Chromium, Cr	5.0 %	5.0 %	

Component Elements Properties	Metric	English	Comments
Manganese, Mn	0.45 %	0.45 %	
Molybdenum, Mo	3.0 %	3.0 %	
Silicon, Si	0.40 %	0.40 %	
Vanadium, V	0.55 %	0.55 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	850 Â°C	1560 Â°F	Ae1
	853 Â°C	1570 Â°F	Ar1

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