

Latrobe LSS H19 Hot Work Tool Steel (ASTM H19)

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

Material Notes:

TLS H19 hot work tool steel is a hot work steel that exhibits excellent resistance to softening at elevated temperature. This grade maintains high hardness and resistance to thermal fatigue cracking (heat checking) at elevated temperature. The vanadium content imparts good resistance to abrasion and wear. For best results, TLS H19 hot work steel should not be water cooled in service unless the tool design includes a continuous flow of internal water cooling. Spray cooling and thermal shock should be avoided. TLS H19 is recommended for difficult hot work tooling applications such as brass extrusion tooling, brass die casting dies, hot punches, and forging die inserts. 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-H19-Hot-Work-Tool-Steel-ASTM-H19.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	41	41	Air Cooled from 1204Â°C; 704Â°C Temper Temperature
	57	57	Air Cooled from 1204Â°C; 482Â°C Temper Temperature
	58	58	Air Cooled from 1204Â°C; 530Â°C Temper Temperature
Machinability	55 - 60 %	55 - 60 %	1% Carbon Steel

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 %	0.40 %	
Chromium, Cr	4.25 %	4.25 %	
Cobalt, Co	4.25 %	4.25 %	
Iron, Fe	84.25 %	84.25 %	
Manganese, Mn	0.30 %	0.30 %	
Silicon, Si	0.30 %	0.30 %	
Tungsten, W	4.25 %	4.25 %	
Vanadium, V	2.0 %	2.0 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	838 Â°C	1540 Â°F	Ac1

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