

Latrobe LSS,ç 2714 Hot Work Tool Steel (DIN 1.2714 mod)

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

Material Notes:

TLS 2714 is a nickel-chromium-molybdenum hot work steel that exhibits high impact toughness and good resistance to softening at elevated temperature. The high nickel content imparts the toughness as well as good through-hardening (hardenability) in large section thicknesses. The steel also exhibits good resistance to thermal shock and thermal fatigue cracking, and relatively small dimensional changes during hardening. 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-2714-Hot-Work-Tool-Steel-DIN-12714-mod.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	53	53	Air Cooled from 860Â°C, 45 minutes
	55	55	Oil Quenched from 830Â°C, 45 minutes
	57	57	Air Cooled from 900Â°C, 45 minutes
	59	59	Oil Quenched from 870Â°C, 45 minutes
Machinability	75 - 80 %	75 - 80 %	1% Carbon Steel

Thermal Properties	Metric	English	Comments
CTE, linear	12.2 Âµm/m-Â°C	6.78 Âµin/in-Â°F	
	@Temperature 20.0 - 100 Â°C	@Temperature 68.0 - 212 Â°F	
	14.2 Âµm/m-Â°C	7.89 Âµin/in-Â°F	
	@Temperature 20.0 - 500 Â°C	@Temperature 68.0 - 932 Â°F	
Thermal Conductivity	35.0 W/m-K	243 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 700 Â°C	@Temperature 1290 Â°F	
	36.0 W/m-K	250 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	38.0 W/m-K	264 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 350 Â°C	@Temperature 662 Â°F	

Component Elements Properties	Metric	English	Comments
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Component Elements Properties	Metric	English	Comments
Chromium, Cr	1.3 %	1.3 %	
Iron, Fe	94.85 %	94.85 %	
Manganese, Mn	0.85 %	0.85 %	
Molybdenum, Mo	0.50 %	0.50 %	
Nickel, Ni	1.65 %	1.65 %	
Silicon, Si	0.25 %	0.25 %	
Vanadium, V	0.10 %	0.10 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	732 Â°C	1350 Â°F	Ac1
	771 Â°C	1420 Â°F	Ac3

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China