

Latrobe LSS™ PGK Knife and Die Steel

Category : Metal , Ferrous Metal , Alloy Steel , Carbon Steel , High Carbon Steel , Tool Steel , Air-Hardening Steel

Material Notes:

TLS PGK knife and die steel is a versatile medium-chromium, air-hardening tool steel that is characterized by a very good combination of toughness and wear resistance. It is available primarily in flat and sheet forms for cold work tooling applications which demand better toughness but comparable wear resistance compared to D2 cold work tool steel and M2 high speed steel. A similar grade which is available primarily in round product forms is Timken Latrobe Steel Lescowear. Typical applications for TLS PGK knife and die steel include industrial knives, shear knives, and dies for blanking, forming, and trimming. 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-PGK-Knife-and-Die-Steel.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.70 g/cc	7.70 g/cc	
Density	7.70 g/cc	0.278 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	62.5	62.5	Air Cooled from 1010°C, 20 minutes
	63.5	63.5	Air Cooled from 1038°C, 20 minutes
Modulus of Elasticity	207 GPa	30000 ksi	
Machinability	50 - 60 %	50 - 60 %	1% Carbon Steel

Component Elements Properties	Metric	English	Comments
Carbon, C	1.15 %	1.15 %	
Chromium, Cr	8.5 %	8.5 %	
Iron, Fe	84.1 %	84.1 %	
Manganese, Mn	0.40 %	0.40 %	
Molybdenum, Mo	1.5 %	1.5 %	
Silicon, Si	0.90 %	0.90 %	
Tungsten, W	1.5 %	1.5 %	
Vanadium, V	1.95 %	1.95 %	

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