

Latrobe Whitebear[®] Cold Work Tool Steel (ASTM A18)

Category : Metal , Ferrous Metal , Alloy Steel , Tool Steel , Air-Hardening Steel , Cold Work Steel

Material Notes:

Whitebear cold work tool steel is a versatile air-hardening tool steel in the 8% chromium family that is characterized by a very good combination of toughness and wear resistance. It contains lower carbon and total alloy content than most of the other cold work tool steels in the 8% chromium family, and these differences enhance the impact toughness of the steel at some sacrifice in wear resistance. Typical applications for Whitebear cold work tool steel include punches, blanking dies, thread roll dies, coining dies, drawing dies, upsetting dies, and rolls. 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-Whitebear-Cold-Work-Tool-Steel-ASTM-A18.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.81 g/cc	7.81 g/cc	
Density	7.81 g/cc	0.282 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	47	47	Air Cooled from 1066 [°] C, 600 [°] C Temper Temperature
	59	59	Air Cooled from 1066 [°] C, 149 [°] C Temper Temperature
	61	61	Air Cooled from 1066 [°] C, 470 [°] C Temper Temperature
Modulus of Elasticity	207 GPa	30000 ksi	
Machinability	65 - 70 %	65 - 70 %	1% Carbon Steel

Component Elements Properties	Metric	English	Comments
Carbon, C	0.83 %	0.83 %	
Chromium, Cr	7.75 %	7.75 %	
Iron, Fe	86.37 %	86.37 %	
Manganese, Mn	0.35 %	0.35 %	
Molybdenum, Mo	1.55 %	1.55 %	
Silicon, Si	1.0 %	1.0 %	
Vanadium, V	2.15 %	2.15 %	

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