

Latrobe DuraTech™ A11 Powder Metal Tool Steel (AISI A11)

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

Material Notes:

DuraTech A11 powder metal tool steel a versatile air-hardening tool and die steel which provides extremely high wear resistance in combination with relatively high impact toughness. A very large volume of hard vanadium carbides provides the high wear resistance. The good impact toughness is the result of the fine grain size, small carbides, and superior cleanliness of the powder metallurgy (PM) microstructure. DuraTech A11 offers substantially better wear resistance than the high-carbon, high chromium die steels such as D2 and D7. 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-DuraTech-A11-Powder-Metal-Tool-Steel-AISI-A11.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.41 g/cc	7.41 g/cc	
Density	7.39 g/cc	0.267 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	63	63	Oil Quenched from 1177°C; 5 minutes
	65.0	65.0	Oil Quenched from 1121°C; 20 minutes
	65	65	Oil Quenched from 1066°C; 45 minutes
Modulus of Elasticity	221 GPa	32000 ksi	
Machinability	35 - 40 %	35 - 40 %	1% Carbon Steel

Thermal Properties	Metric	English	Comments
CTE, linear	10.71 µm/m-°C	5.950 µin/in-°F	
	@Temperature 21.0 - 100 °C	@Temperature 69.8 - 212 °F	
	12.31 µm/m-°C	6.839 µin/in-°F	
	@Temperature 21.0 - 538 °C	@Temperature 69.8 - 1000 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	2.45 %	2.45 %	
Chromium, Cr	5.25 %	5.25 %	
Iron, Fe	79.75 %	79.75 %	

Component Elements Properties	Metric	English	Comments
Molybdenum, Mo	1.35 %	1.35 %	
Silicon, Si	0.90 %	0.90 %	
Vanadium, V	9.8 %	9.8 %	

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

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