

Misumi DC53 JIS Tool Steel

Category : Metal , Ferrous Metal , Tool Steel , Cold Work Steel , Mold Steel

Material Notes:

General purpose cold work die and mold steel whose strength and toughness approach those of high speed steels. Good machinability and grindability. Tougher than D2 Tool Steel. Machines 30% faster than D2 and A2. About the same strength as D2 Tool Steel after low-temperature tempering. Information provided by MISUMI Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Misumi-DC53-JIS-Tool-Steel.php

Physical Properties	Metric	English	Comments
Density	7.87 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	58.0 - 63.0	58.0 - 63.0	

Thermal Properties	Metric	English	Comments
CTE, linear	12.2 $\mu\text{m/m}\cdot\text{C}^\circ$	6.78 $\mu\text{in/in}\cdot\text{F}^\circ$	
	@Temperature 20.0 - 100 C°	@Temperature 68.0 - 212 F°	
Thermal Conductivity	23.8 W/m-K	165 BTU-in/hr-ft ² - F°	

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 200 C°	356 - 392 F°	Tempered and air cooled
	1020 - 1050 C°	1870 - 1920 F°	Hardened then air cooled

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