SUPREME STEEL INDUSTRIES

AISI Type D2 Tool Steel, air quenched at 1010°C, tempered at 200°C

Categories: Metal; Ferrous Metal; Carbon Steel; High Carbon Steel; Tool Steel; Cold Work Steel

Material Notes: High-carbon, High-chromium Tool Steel. Virtually non-deforming during heat treatment. High wear resistance, which increases with increasing C and V content.

Key Words: high carbon, high chromium, UNS T30402, ASTM A681, FED QQ-T-570, SAE J437, SAE J438, DIN 1.2379, B

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

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Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	769	769	Converted from Rockwell C hardness.
Hardness, Rockwell C	62	62	
Hardness, Vickers	748	748	
Izod Impact Unnotched	77.0 J	56.8 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear	10.5 µm/m-°C @Temperature 20.0 - 100 °C	5.83 µin/in-°F @Temperature 68.0 - 212 °F	
	11.8 µm/m-°C @Temperature 0.000 - 300 °C	6.56 µin/in-°F @Temperature 32.0 - 572 °F	
	12.5 µm/m-°C @Temperature 0.000 - 500 °C	6.94 µin/in-°F @Temperature 32.0 - 932 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	205 - 540 °C	401 - 1000 °F	Tempering Temperature
	980 - 1025 °C	1800 - 1877 °F	Hardening Temperature
Annealing Temperature	870 - 900 °C	1600 - 1650 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.4 - 1.6 %	1.4 - 1.6 %	
Chromium, Cr	11 - 13 %	11 - 13 %	
Cobalt, Co	<= 1.0 %	<= 1.0 %	
Manganese, Mn	<= 0.60 %	<= 0.60 %	
Molybdenum, Mo	0.70 - 1.2 %	0.70 - 1.2 %	
Phosphorous, P	<= 0.030 %	<= 0.030 %	
Silicon, Si	<= 0.60 %	<= 0.60 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Vanadium, V	<= 1.1 %	<= 1.1 %	

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