

AISI Type HCHCr Tool Steel, Oil- Quenched from 980°C (1800°F), Tempered at 200°C

Material Notes: High-Carbon, High-Chromium steel. Virtually no deformation during hardening. High wear resistance which increases with C and V content.


Key Words: High Carbon, High Chromium, UNS T30403, ASTM A681, FED QQ -T-570, SAE J437, SAE J438 (D2), DIN 1.2080

Vendor : SUPREME STEEL INDUSTRIES, MUMBAI, INDIA. E-MAIL:- supremesteelind@hotmail.co.in, amit.supremesteel@gmail.com

Size Range: Flats Thickness 25 ~ 350mm, Width 205 ~ 1500 mm
Rounds 8 ~ 500 mm Dia

Physical Properties	Metric	English	Comments
Density	7.86 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Izod Impact Unnotched	28.0 J	20.7 ft-lb	

Thermal Properties	Metric	English	Comments
CTE, linear 	10.7 µm/m-°C @Temperature 20.0 - 100 °C	5.94 µin/in-°F @Temperature 68.0 - 212 °F	
	12.1 µm/m-°C @Temperature 0.000 - 300 °C	6.72 µin/in-°F @Temperature 32.0 - 572 °F	
	12.8 µm/m-°C @Temperature 0.000 - 500 °C	7.11 µin/in @Temperature 32.0 - 932 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	205 - 540 °C	401 - 1000 °F	Tempering Temperature
	925 - 980 °C	1700 - 1800 °F	Hardening Temperature
Annealing Temperature	870 - 900 °C	1600 - 1650 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	2.0 - 2.35 %	2.0 - 2.35 %	
Chromium, Cr	11 - 13 %	11 - 13 %	
Manganese, Mn	<= 0.60 %	<= 0.60 %	
Phosphorous, P	<= 0.030 %	<= 0.030 %	
Silicon, Si	<= 0.60 %	<= 0.60 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Tungsten, W	<= 1.0 %	<= 1.0 %	
Vanadium, V	<= 1.1 %	<= 1.1 %	

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