

SUPREME STEEL INDUSTRIES



AISI Type H21 Tool Steel

Categories: [Metal](#); [Ferrous Metal](#); [Tool Steel](#); [Hot Work Steel](#)

Key Words: UNS T20821, ASTM A681, FED QQ-T-570, SAE J437, SAE J438, SAE J467, DIN 1.2606, UNI X 35 CrMoV 05 KU, JIS SKD 62, B.S. BH 12

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	8.19 g/cc	0.296 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	40 - 55	40 - 55	
Bulk Modulus	160 GPa	23200 ksi	Typical for steel
Shear Modulus	80.0 GPa	11600 ksi	Typical for steel

Thermal Properties	Metric	English	Comments
CTE, linear	12.4 $\mu\text{m/m}^\circ\text{C}$	6.89 $\mu\text{in/in}^\circ\text{F}$	
Thermal Conductivity	27.0 W/m-K	187 BTU-in/hr-ft ² -°F	

Processing Properties	Metric	English	Comments
Processing Temperature	595 - 675 °C	1100 - 1250 °F	Tempering Temperature
	1095 - 1205 °C	2003 - 2201 °F	Hardening Temperature
Annealing Temperature	870 - 900 °C	1600 - 1650 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 %	0.30 %	
Chromium, Cr	3.3 %	3.3 %	
Manganese, Mn	0.30 %	0.30 %	
Silicon, Si	0.34 %	0.34 %	
Tungsten, W	9.0 %	9.0 %	
Vanadium, V	0.25 %	0.25 %	

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