

AISI Type H12 Hot Work Tool Steel

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

Material Notes: Oversized Charpy specimens austenitized at 1010°C for 1 hr., air-cooled, and double tempered to indicated hardness in Charpy Impact notes prior to grinding to finished size

Key Words: UNS T20812, ASTM A681, FED QQ-T-570, SAE J437, SAE J438, SAE J467, DIN 1.2606, UNI X 35 CrMoW 05 KU, JIS SKD 62, B.S. BH 12 (UK)

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	7.81 g/cc	0.282 lb/in ³	

Mechanical Properties	Metric	English	Comments
Bulk Modulus	160 GPa	23200 ksi	Typical for steel.
Shear Modulus	80.0 GPa	11600 ksi	Typical for steel.

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 - 0.40 %	0.30 - 0.40 %	
Chromium, Cr	4.75 - 5.5 %	4.75 - 5.5 %	
Molybdenum, Mo	1.25 - 1.75 %	1.25 - 1.75 %	
Tungsten, W	1.0 - 1.7 %	1.0 - 1.7 %	
Vanadium, V	<= 0.50 %	<= 0.50 %	

H.O.:- 414/416, Maulana Azad Rd, Mumbai - 400 004
 +91 22 - 2385 0143, 2387 2168, 6639 4243, 6636 3466
 © +91 98213 25977 amit.supremesteel@gmail.com

Branch:- 15/1 Dwarkesh Industrial Estate,
 Gulwe Vasti, Bhosari, Pune - 411 026.
 + 91 20-2712 4335 / 2712 1060 © +91 94215 41189
 supremesteelind@hotmail.co.in