

Cold Work Tool Steel

BM1.2358

1.2358 is chromium-vanadium alloyed tool steel for cold work with high hardenability, shock resistance, high strength, wear resistance and dimensional stability after heat treatment. In addition to the high hardening capacity, ability to harden to the core and toughness of 1.2358 cold work tool steel, one of the reasons for preference is its weldability. Besides its weldability, it is sensitive to sanding and polishing. 1.2358 material is delivered in heat treated condition at 30-34HRC hardness.

Chemical Composition

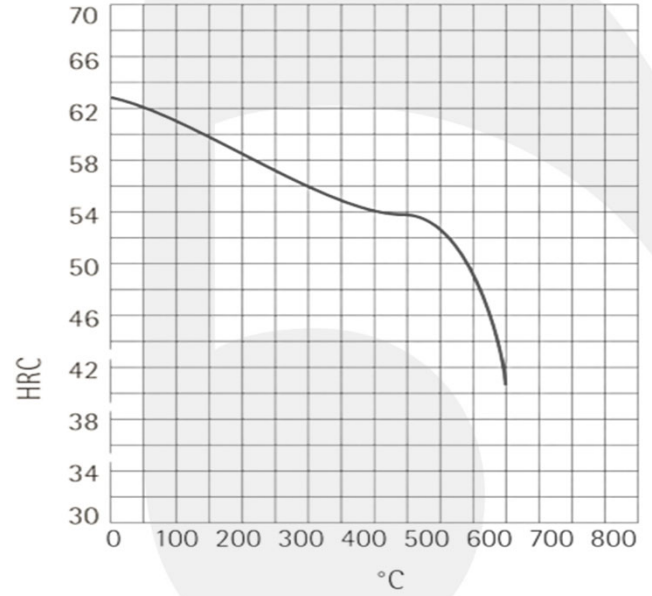
0.58 - 0.62 % C	0.20 – 0.50 % Si	0.79 – 0.90 % Mn
4.30 - 4.70 % Cr	0.40 - 0.60 % Mo	0.20 – 0.30 % V

Applications

1.2358 material is preferred in cutting dies, punches, multi-part molds and plastering dies due to its excellent surface hardening property. As cold work tool steel highly preferred for complex shapes for cold forming. It is especially used in shaping high-strength sheets such as auto body molds.

Heat Treatment Properties

Soft Annealing °C	820-860
Stress relief Annealing °C	600-650
Delivery Hardness HB 30	max. 240



Hardness	
Austenitizing °C	Cooling
950-980	Oil, Pressure Gas, Air or Hot Bath

Tempering °C	450	500	550	600
HRC	54	53	51	43

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