

D-2 Data Sheet

*Chemical Composition (Nominal Values Weight %)

<u>C</u>	<u>Si</u>	<u>Cr</u>	<u>v</u>	<u>Mn</u>	<u>Mo</u>
1.55	0.3	11.8	0.8	0.4	0.8

^{*}Composition shown is nominal. Actual chemical composition may vary.

Characteristics

D-2 is a cold work tool steel which provides a good combination of high wear resistance and stable heat treatment.

Applications

D-2 is suitable for use in stamping/cold forming applications, forming rolls and punches.

Heat Treatment of D-2

Annealing

D-2 should be heated thoroughly to 1550°F in an atmosphere controlled furnace. Hold 2 hours, furnace cool at 25F per/hr to 1100°F, then air cool to room temperature. A maximum hardness of 229 BHN should result.

Hardening

Preheat: 1200-1300°F, equalize temperature, hold 2 hours. Austenitize: 1850-1925°F, equalize temperature, hold 30 minutes.

Quench: Positive pressure (2 bar minimum) quench to below 125°F.

Temper: Double temper at 400-800°F, equalize temperature, hold 2 hours minimum. Double temper recommended. Typical hardness: 58-60 HRC.

Stress Relieving

Annealed material: Heat to 1000-1200F, hold 2 hours, then air cool.

Hardened material: Heat to 25-50°F below heat treat tempering temperature, hold 2 hours, then air cool.

EDM

Hardened material: Heat to 25-50°F below heat treat tempering temperature, hold 2 hours, then air cool.



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