

TOOL STEEL - D2

RELATED SPECIFICATIONS:

Germany	DIN X153 CrMoV12-1 W.Nr 1.2379
Great Britain	BS 4659:BD2
USA	AISI D2
Japan	JIS G 4404 SKD 11

DESCRIPTION:

D2 is a high carbon, high chromium alloy tool steel. It is a tool steel with high dimensional stability in heat treatment. A duplex microstructure with coarse complex carbides provide a steel with high wear resistance and good toughness. An ideal tool steel for processing stock thicknesses up to 3mm.

APPLICATIONS:

High duty cutting tools (dies and punches), long run form rolls, tube mill rolls, deep drawing tools for sheet and strip, shear blades, circular shears, thread rolling dies, small moulds for plastic industries and pressing tools for ceramic industries.

TYPICAL CHEMICAL ANALYSIS:

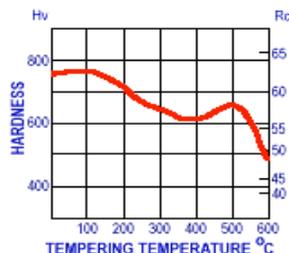
C %	Si %	Mn %	Cr %	Mo %	V %
1.55	0.25	0.35	12.00	0.80	0.90

HARDENING:

Hardening should be done in neutral salt bath, fluidised bed or other controlled atmosphere furnaces. Preheat slowly to 300-800°C then raise to 980-1020°C, followed by air cooling. It is essential to soak at hardening temperature for 10-20 minutes. Obtainable hardness 63 – 65 HRC.

TEMPERING:

Tempering should be carried out immediately on completion of quenching. For maximum hardness and abrasion resistance heat to 150-250°C holding at temperature 1 hour for each 25mm of section. Tempering curve given indicates typical values obtained from air cooling from 1010°C. Nitriding treatment for improved retention of hardness is recommended for certain applications.



SIZES AVAILABLE:

Rounds, flats and squares - Please contact your local branch for availability.

COLOUR CODE: BLACK AND SIGNAL RED END

