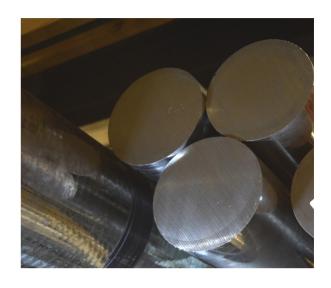


Tool Steel Service. Quality. Value.

High Carbon, High Chromium Steel

D2 is ideal for use in applications where high abrasion and wear resistance is required.

D2 tool steel is a raw material used in applications where improved toughness is required. The alloy benefits from superior wear resistance combined with higher compressive strength. Once hardened, the allovs high chromium content gives the material improved corrosion-resistant characteristics. As a high wear and abrasion resistant steel, D2 offers a hardness range of 55 -62 HRC. Classed as a high-carbon, high-chromium tool steel, D2 benefits from air hardening and finds use in a variety of engineering applications including heavy-duty press tools, punches, swaging dies, general-purpose dies, gauges and blanking tools.



Key Features

- High Compression Strength
- Low Distortion
- High Abrasion & Wear Resistance
- Heat Treatable
- Mild Corrosion Resistance

Applications

- Knifes
- Punches & dies
- Thread rollers
- Coining
- Heavy duty press tools

Chemical Composition (weight %)

	С	Mn	Si	Co	Cr	Мо	V	Р	Ni	Cu	S
Min	1.4				11.0	0.7					
Max	1.6	0.6	0.6	1.0	13.0	1.2	1.1	0.03	0.3	0.25	0.03

Physical Properties

	@ 20°C	@ 200°C	@ 400°C
Density (kg/dm³)	7.70	7.65	7.60
Coefficient of thermal expansion (per °C from 0°C)	-	11.0 x 10-6	10.8 x 10-6
Thermal conductivity (cal/cm.s °C)	40.9 x 10-3	50.4 x 10-3	55.2 x 10-3
Specific heat (cal/g °C)	0.110		
Modulus of elasticity:			
Kp/mm ²	19 700	19 200	17 650
N/mm²	193 000	188 000	173 000

We stock D2 tool steel in round bar, flat bar, square bar and plate

UK Service Centres: Quality & Testing:

Smiths Belfast 02895 908 897 Smiths Leeds 0113 307 5167 Smiths Biggleswade 01767 604 704 Smiths Manchester 0161 794 8650 Smiths Birmingham 0121 728 4940 Smiths Norwich 01603 789 878 Smiths Nottingham 0115 925 4801 Smiths Bristol 0117 971 2800 Smiths Chelmsford 01245 466 664 Smiths Redruth 01209 315 512 Smiths Verwood 01202 824 347 Smiths Horsham 01403 261 981 Main Office 0845 527 3331





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