

H13 TOOL STEEL

H13 is an air hardening chromium die steel - can be used for a range of applications. The higher vanadium content ensures increased resistance to heat checking and all round improvement to properties at elevated temperatures. Tools may be water cooled without risk of cracking. After normal heat treatment has been carried out it is suitable for nitriding 0.30mm (0.012") deep.

Typical applications:

Hot forging and pressing dies, Extrusion dies, mandrels and punches, Hot chisels, Pressure pads, Extrusion stems and rams, Blanking and bending tools, Hot heading tools, Backer blocks

H11 TOOL STEEL

Pre-machined **H11 tool steel** with machining allowance. Both bar ends saw cut.

H11 (1.2343) is a 5% chromium hot work tool steel. Compare to H13, H11 has less vanadium giving it higher toughness, with some reduction in wear resistance and temper resistance. H11 has excellent dimensional stability during heat treatment.

Typical chemical composition of H11 Tool steel (1.2343)

C	Mn	P	S	Si	Cr	V	Mo
0.25-0.45%	0.20-0.60%	0.03%	0.03%	0.80-1.25%	4.75-5.50%	0.30-0.60%	1.10-1.60%