P20 TOOL STEEL -Rods, Flats & Squares



P20 (1.2311) Pre hardened to approximately 300 B.H (65 t.s.i) P20 requires no further heat treatment therefore avoiding risk of distortion or cracking. Although prehardened P20 is still capable of being machined and of giving a good polished finish.

Typical applications: Plastic moulds, backers, bolsters, die holders. Also suitable for other applications such as rails, shafts and wear strips

P20S (1.2312) Delivered pre-hardened this material is ready for use at approximately 280/325 H.B. Similar to P20 (1.2311) but with a higher sulpher content which provides much improved machinability. This grade is not suitable for polishing or other applications requiring a fine finish.

Typical applications: Suitable for large mould frames and bolsters

P20N (1.2738) Delivered pre hardened ready for use at 280/325 H.B. With added Nickel to ensure consistent hardness through large sections. Easy to polish and readily machinable.

Typical applications: Used for quality for pressing and injection moulding tools. If the section exceeds 400mm P20 (1.2311) won't provide a consistent through hardness. Suitable for hard chrome plating and for nitriding

PS09 equivalent grades: X38CrMo16 / DIN 1.2316

Typical chemical composition of PS09 Mould Steel							
С	SI	Cr	Мо	Mn	Р	S	Ni
0.33-	1.00%	15.50-	0.80-	0-	0.03%	0.03%	1.00%
0.45%	max	17.50%	1.30%	1.50%	max	max	max