

OTAI SPECIAL STEEL is ASTM P20 Tool Steel stockholders and suppliers from china. we have more our 16 years experience in special steel supply.

ASTM P20 Steel is a good quality plastic tool steel, P20 steel belong to the high quality medium carbon, Pre-hardness(28~34HRC) plastic mould steel. It no need further heat treatment. so you don't have any worry about distortion or cracking.

P20 tool steel properties is very simliar with 3Cr2Mo, IOS 35CrMo2, DIN 1.2311 steel.

At most work environment, P20 steel is equivalent with 1.2311, 35CrMo2, 3Cr2Mo mold steel.

P20 steel properties Related Specifications ASTM A681-1999 | JIS G4404(2000) | GB 1299

Chemical composition

C(%)	0.28~ 0.40	Si(%)	0.20~ 0.80	Mn(%)	0.60~ 1.00
P(%)	≤0.030	S(%)	≤0.030	Cr(%)	1.40~ 2.00
Mo(%)	0.30~ 0.55				

Form of Supply

ASTM P20 tool steel, we can supply the p20 steel round bar, steel flat bar, steel plate, hexagonal steel bar and steel square block. P20 steel Round bar can be sawn to your required lengths as one offs or multiple cut pieces. Rectangular pieces can be sawn from flat bar or plate to your specific sizes. Ground tool steel bar can be supplied, providing a quality precision finished bar to tight tolerances.

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Applications

ASTM P20 Tool steel is a American plastic Die steel material, the steel by “super clean” production process, pre hardened, showing the height of micro pure and excellent homogeneous structure, excellent polishing and light etching engraving. After heat treatment, processing and polishing performance is good, can be carried out, and can be processed, suitable for the surface treatment of chrome, material hardness, good toughness, good mechanical processing performance. Gold microstructure is martensite and bainite structure. Main be applied to in plastic steel mold. like car injection moulding, PVC plastic injection molding.

Regular size and Tolerance

1) Hot Rolled round bar

Diameter (mm)	Diameter Tolerance (mm)	Diameter (mm)	Diameter Tolerance (mm)
≤12.70	-0.13 ~0.30	>50.80~63.5	-0.25~0.76
12.7~25.40	-0.13~0.41	>63.50~76.20	-0.25~1.02
>25.4~38.10	-0.15~0.51	>76.20~101.60	-0.30~+1.27
>38.1~50.80	-0.20~0.64	>101.60~ 203.20	-0.38~3.81

2) Hot Rolled steel plate

Thickness (mm)	Thickness Tolerance (mm)	Thickness (mm)	Thickness Tolerance (mm)
≤25.4	-0.41~0.79	>127~152	-1.60~2.39
>25.4~76	-0.79~1.19	>178~254	-1.98~3.18
>76~127	-1.19~1.60	>254~305	-2.39~3.96

Others have not specified size, pls [contact](#) our experienced sales team.

[Processing](#)

P20 tool steel round bar and flat sections can be cut to your required sizes. P20 tool steel ground bar can also be supplied, providing a high quality tool steel precision ground tool steel bar to your required tolerances. P20 tool steel is also available as Ground Flat Stock / Gauge Plate, in standard and nonstandard sizes.

Contact our experienced sales team to help you with your P20 Tool steel questions by [Email](#) or Telephone. The P20 Steel questions will be reply in 24 hours.
