

KS STS31 Tool Steel is a high-carbon and high-chromium alloy tool steel that is used for making long-life high-precision cold-work dies. It has good wear resistance and size ability after heat treatment. Otai special steel is KS STS31 tool steel china supplier and stockholders.

Related Specifications A681-1999 | KS G4404(2000) | GB /T1299

Chemical composition

C(%)	0.95~1.05	Si(%)	≤0.35	Mn(%)	0.90~1.20
P(%)	≤0.030	S(%)	≤0.030	Cr(%)	0.80~1.20

Equivalent Of KS STS 31 cold work alloy tool steel

USA	Germany	China	Japan	France	England	Italy	Poland	Czechia	Austria
-	DIN,WNr	GB	JIS	AFNOR	BS	UNI	PN	CSN	ONORM
L3	105WCr6/ 1.24194	CrWMn	SKs31	105WCr5	/	10WCr6			

Form of Supply

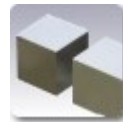
STS31 tool steel, we can supply the round bar, flat bar, plate and square block. Diameters can be sawn to your required lengths as one offs or multiple cut pieces. Rectangular pieces can be sawn from flat bar or plate to your specific sizes. Ground tool steel bar can be supplied, providing a quality precision finished bar to tight tolerances.



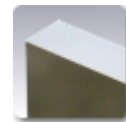
Round



sheet



Square



Plate

Applications

STS31 Tool Steel is used in the making of Manufacture cutting edge in the job without intense heat tools and quenching deformation requirement when measuring tool and cutting tool, such as knife, long long tap, reamer, milling cutter, die and other types of special tools, and soft cutting non-metallic materials of cutting tool.

Regular size and Tolerance

Hot rolled STS 31 steel Round bar: Ø2mm~150mm

Hot Forging STS31 Steel Round bar:Ø5mm~3000mm

Hot rolled Steel plate STS31 Material: Thickness 5mm to 210mm x Width 210-1250mm

Forged Steel plate SKD31 material: Thickness 130mm to 810mm x Width 210-1250mm

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

Physical properties of STS31 Tool Steel

Density of STS31 Cold work Alloy Tool Steel: 7.85KG/CM3

Forged Ratio: 5:1 Min

Melting point: 1427 °C

Mechanical properties of STS31 Tool Steel

Tensile strength: 1350 - 2220 MPa

Poisson's ratio: 0.27-0.30

[Processing for STS31 steel](#)

STS31 tool steel round bar and flat sections can be cut to your required sizes. STS31 ground steel bar can also be supplied, providing a high quality tool steel precision ground tool steel bar to your required tolerances. STS31 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 STS31 tool steel questions by [email](#) or telephone. The questions will be reply in 24 hours.

OTAI SPECIAL STEEL CO., LTD

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