

HOT WORK TOOL STEELS

Available Product Shapes

Round Bar

Product Description

Highly fatigue loaded components in motorsport and advanced engineering industries, e.g. cam shafts, gudgeon pins, con rods, crankshafts, bolts and drive shafts.

Properties

- Super-high strength to avoid plastic deformation and ensure an optimized fatigue strength
- High stiffness: relation between density and strength
- High tempering temperatures allow for a comprehensive range of surface treatments

Standards

Patent

Chemical composition

C	Si	Mn	Cr	Mo	V
0.50	0.20	0.45	4.60	3.00	0.75

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932	600 / 1112	700 / 1292
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	11.1 / 6.167	11.5 / 6.389	11.9 / 6.611	12.3 / 6.833	12.8 / 7.111	13.2 / 7.333	13.6 / 7.556

For more information see www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.