

HOT WORK TOOL STEELS

Available Product Shapes

Long Products

Product Description

Ultra-high-strength maraging steel. In contrast to heat treatable steels its outstanding tensile properties are not due to a hardened structure with relatively high carbon content, but to precipitation of intermetallic phases from a ductile nickel bearing matrix containing almost no carbon.

Properties

- Cold heading and embossing tools
- Cold extrusion tools
- Casings
- Shear plates
- Moulds for the plastic industry
- Die casting tools for aluminium and zinc alloys
- Hot pressing tools

Material designation	
1.2709	SEL

Chemical composition

C	Si	Mn	Mo	Ni	Co	Ti
≤ 0,03	≤ 0,10	≤ 0,15	4.90	18.00	9.30	1.10

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.3 / 5.722	10.7 / 5.944	11 / 6.111	11.3 / 6.278	11.6 / 6.444

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

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ONE STEP AHEAD.