

CASE HARDENING STEELS

Available Product Shapes

Long Products

Product Description

BÖHLER M121 ISOPLAST is a remelted nickel chrome molybdenum case hardening steel produced by the PESR (Pressurised ESR) method designed for components with high demand in toughness and core strength.

Properties

- Best fatigue strength and toughness properties
- outstanding tensile strength
- Good dimensional stability, thereby low distortion
- High cleanliness level for best homogeneity
- 100% ultrasonically tested pre-material
- No hydrogen increases during remelting reduces the danger of cracking
- Tight elemental control, precise adjustment of alloying element contents

Material designation	
~1.5752	SEL
~15NiCr13	EN
~EN36C	BS

Chemical composition

C	Si	Mn	Cr	Mo	Ni
0.14	0.30	0.45	0.70	0.15	3.50

Physical Properties at 20°C / 68°F

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	12.1 / 6.722	12.9 / 7.167	13.5 / 7.5	13.9 / 7.722	14.1 / 7.833	14.2 / 7.889

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

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ONE STEP AHEAD.