



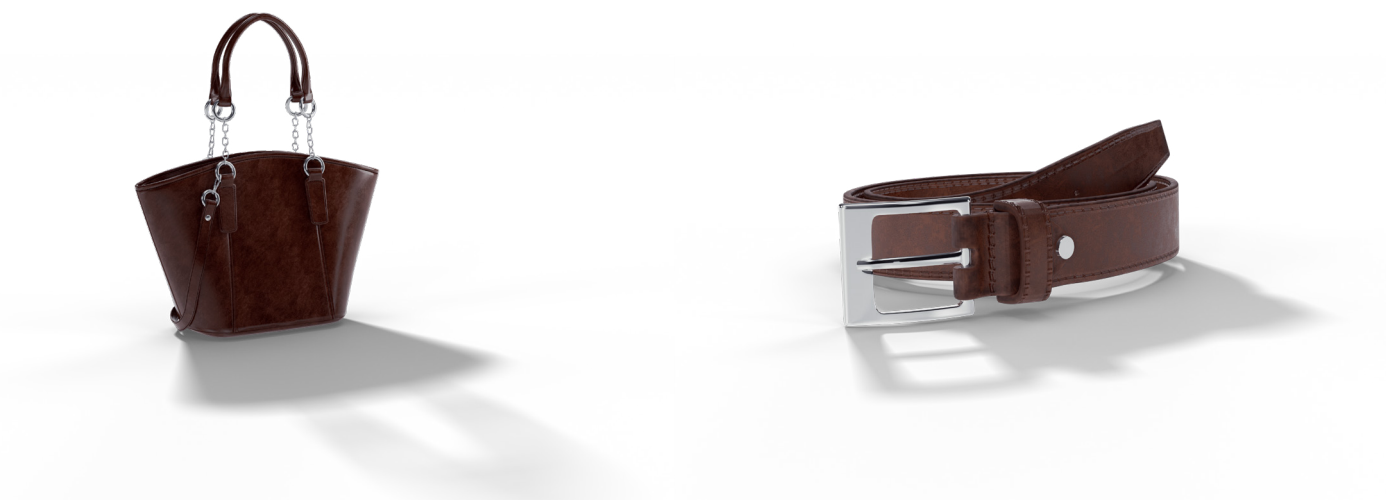
WATCH & LUXURY

voestalpine WATCH & LUXURY GOODS BÖHLER P570

BÖHLER P570 is a remelted nickel-free alloy with high purity that allows excellent biocompatibility. In BÖHLER P570, nickel is successfully replaced by manganese and nitrogen. Nitrogen not only stabilizes austenite, but also improves the mechanical properties of the steel. Its high work-hardening potential enables it to achieve even greater mechanical strength. Finally, excellent corrosion resistance combined with the fact that it is non-magnetic, make it the material of choice for the watch and luxury industry. In particular, it offers exceptional wear resistance, while at the same time providing an outstanding shine.

BENEFITS OF USING BÖHLER P570:

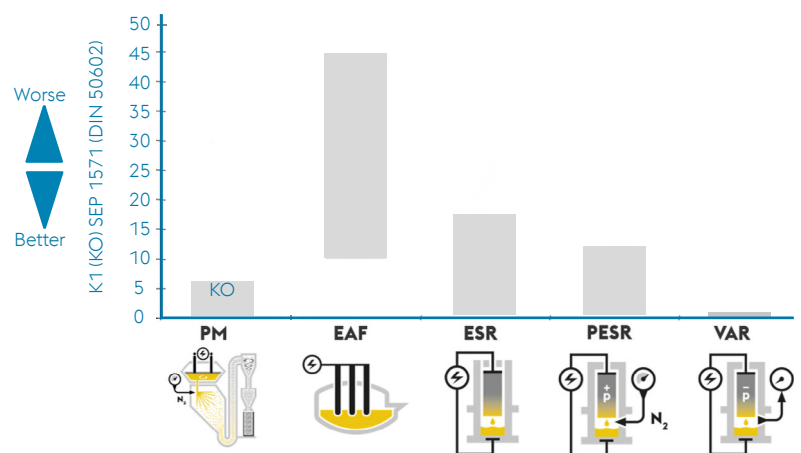
- » Stable austenitic structure: ferrite-free respectively phase-free (Sigma) and precipitation-free
- » High degree of purity thanks to the remelting process
- » Low nickel content, i.e. no release of allergy-triggering nickel ions
- » Homogeneous structure achieved
- » High strength & excellent ductility
- » High work-hardening potential, i.e. high mechanical strength achievable even at low degrees of work-hardening
- » Excellent corrosion resistance, high resistance to pitting & crevice corrosion, clearly superior to standard austenitic materials
- » Good biocompatibility
- » Mirror polishable
- » Non-magnetic



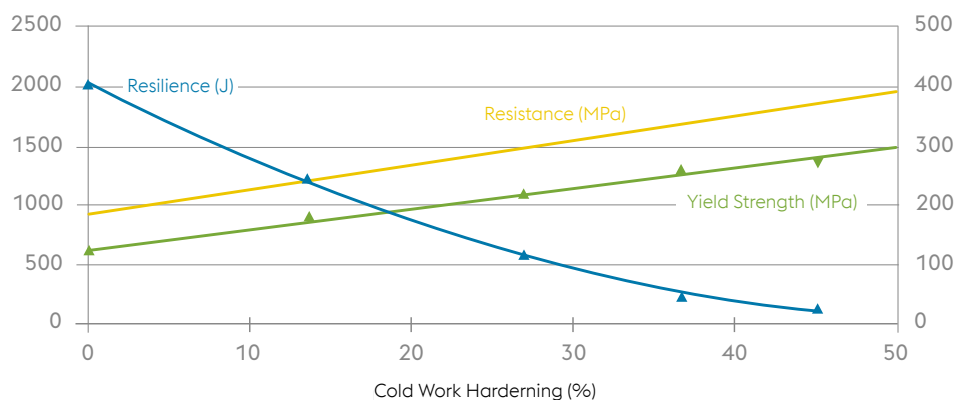
CHEMICAL COMPOSITION

Composition	BÖHLER P570
C	0.20
Si	0.40
Mn	12.00
Cr	17.00
Mo	3.00
Ni	0.20
N	0.50
Fe	balance

COMPARISON OF MICROCLEANLINESS



MECHANICAL PROPERTIES



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ONE STEP AHEAD.