

# ES Antikor SL

**Name:**

**Special alloy**

**Typical analysis in %:**

C Mn S Cr  
0.04 1.2 0.12 13.0  
+ trace elements

**As-supplied condition:**

Quenched and tempered to a hardness of 280-325 HB (approx. 950-1100 N/mm<sup>2</sup>)

**Characteristics:**

This newly developed special material is a further development of the well-known steel ES Antikor S.

The special chemical composition and manufacturing variants of this new and innovative tool steel provides it with the following special properties:

- excellent machinability
- uniform hardness throughout the cross section
- adequately high corrosion resistance
- high dimensional stability
- high toughness
- highest weldability
- high thermal conductivity

**General fields of application:**

Mould frames and tools for processing aggressive plastics or for use with highly corrosive media.

## Heat treatment data:

Stress-relief annealing: 480 °C min. 2 h at core temperature

## Physical characteristics:

**Coefficient of thermal expansion:** between 20 °C and:

$10^{-6} \times m$	100	200	300	400	500 °C
m x K	10.0	10.6	11.0	11.3	11.6

<b>Thermal conductivity:</b>	W	20	150	350 °C
m x K		21.6	23.2	24.9

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