

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/mm²)

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

<i>Thermal conductivity:</i>	$\frac{W}{m \times K}$	20	150	350 °C
		21.6	23.2	24.9

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