

ES Antikor S

Name:
X 33 CrS 16

Material No.:
1.2085 mod.

Typical analysis in %:

C	Si	Mn	Cr	S
0.3	0.5	1.0	16.0	0.1

As-supplied condition:
Quenched and tempered to 280-325 HB
(950-1100 N/mm²)

Characteristics:
Corrosion-resistant steel with considerably better machinability compared to material 1.2316

General fields of application:
Mould frames, tools for processing corrosive plastics. This steel is recommended where the main requirement is for machinability with good corrosion-resistance.

Special note:
Normally ES Antikor S is used in the as-supplied condition. Further heat treatment is not recommended. ES Antikor S is suitable for technical polishing only. For other types of polished surfaces we recommend ES Antikor in EST grade.

Heat treatment data:

	Temperature	Duration	Cooling
Stress-relief annealing	max. 480 °C	min. 4 h	furnace

We recommend stress-relief annealing for more than 30% machining before finish machining

Physical characteristics:

Coefficient of thermal expansion: between 20 °C and:

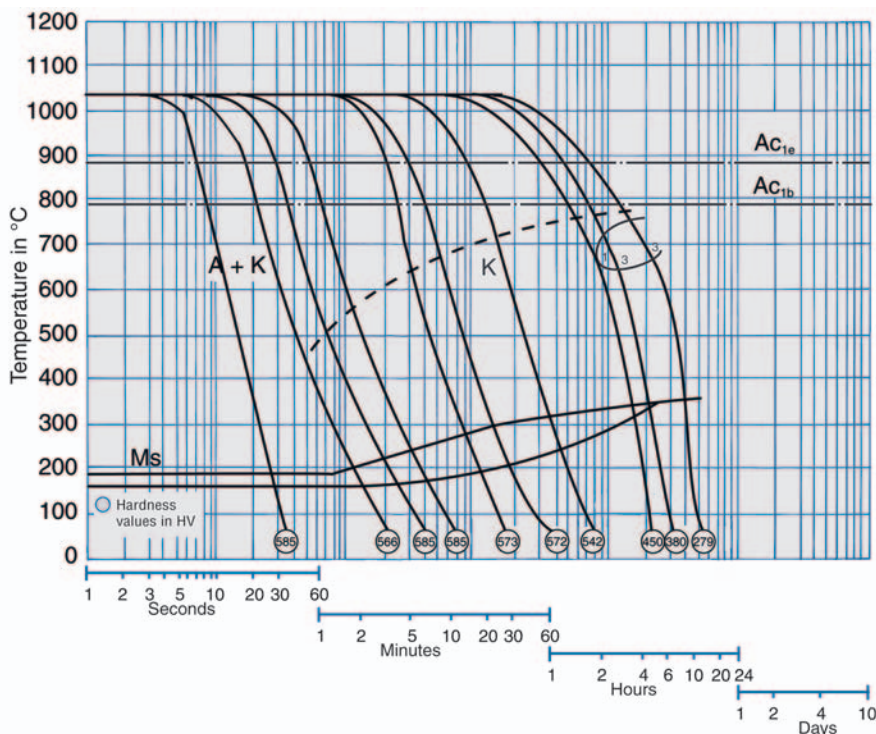
10 ⁻⁶ x m	100	200	300	400	500	600	700 °C
m x K	12.2	12.9	13.5	13.9	14.2	14.5	14.8

Thermal conductivity:

W	20	350	700 °C
m x K	39.5	36.5	33.5

Normal working hardness: Used in the as-supplied condition

Continuous time-temperature-transformation diagram



Tempering curve

