

ES Antikor

Name:
X 38 CrMo 16

Material No.:
1.2316

Typical analysis in %:
C Cr Mo Ni
0.38 16.0 1.2 ≤1.0

As-supplied condition:
280 - 325 HB
(950 - 1100 N/mm²)

Characteristics:
Corrosion resistant, polishable,
quenched and tempered mould steel

General fields of application:
Tools for processing corrosive plastics

Special note:
Highest corrosion resistance with
polished surface.

Nitriding ES Antikor reduces its
corrosion resistance.

Also available in EST and ESR grades.

**If it is to be grained or polished only
ES Antikor EST grade should be used.**

**We recommend ES Antikor for graining
or technical polishing.**

**ES Antikor ESR should be used for
higher quality polishing.**

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 °C
m x K	10.5	11.0	11.0	12.0

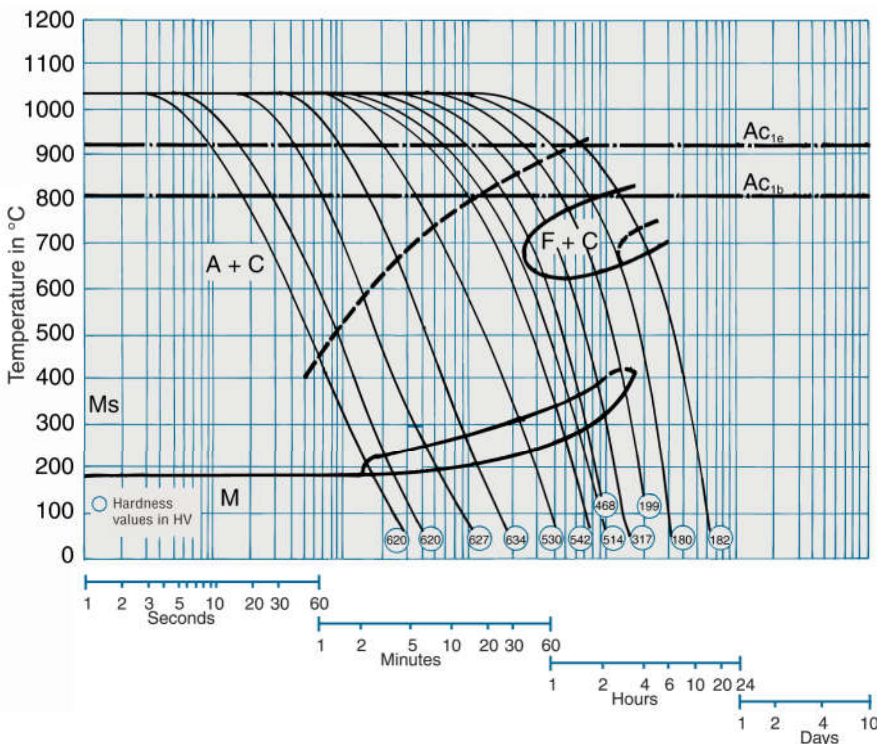
Thermal conductivity:

W	20	350	700 °C
m x K	17.2	21.0	24.7

Normal working hardness: Used in the as-supplied condition

16

Continuous time-temperature-transformation diagram



Tempering curve

