

→ W.NR.:	1.2767 (EN ISO 4957)
→ EN / DIN:	X45NiCrMo16
→ AISI:	/

### → CHEMICAL COMPOSITION (W%)

C	Si	Mn	Cr	Ni	Mo
0.45	0.25	0.30	1.35	4.00	0.25

→ DELIVERY CONDITION:	soft annealed with a hardness of <262 HB
→ PROCESS:	conventional

### → HEAT TREATMENT

<b>soft annealing</b>	<b>cooling</b>	<b>hardness (HB)</b>
610-650 °C	furnace	<262
<b>hardening</b>	<b>quenching</b>	<b>hardness (HRC)</b>
840-870 °C	oil, air, warm bath 180-220 ° C	56

### → PROPERTIES

High hardenability and toughness due to the high Ni content. Good compressive strength. Due to its lower C and Cr content, this steel is suitable for polishing, texturing and EDM machining. Its wear resistance is lower than that of ledeburite steels.

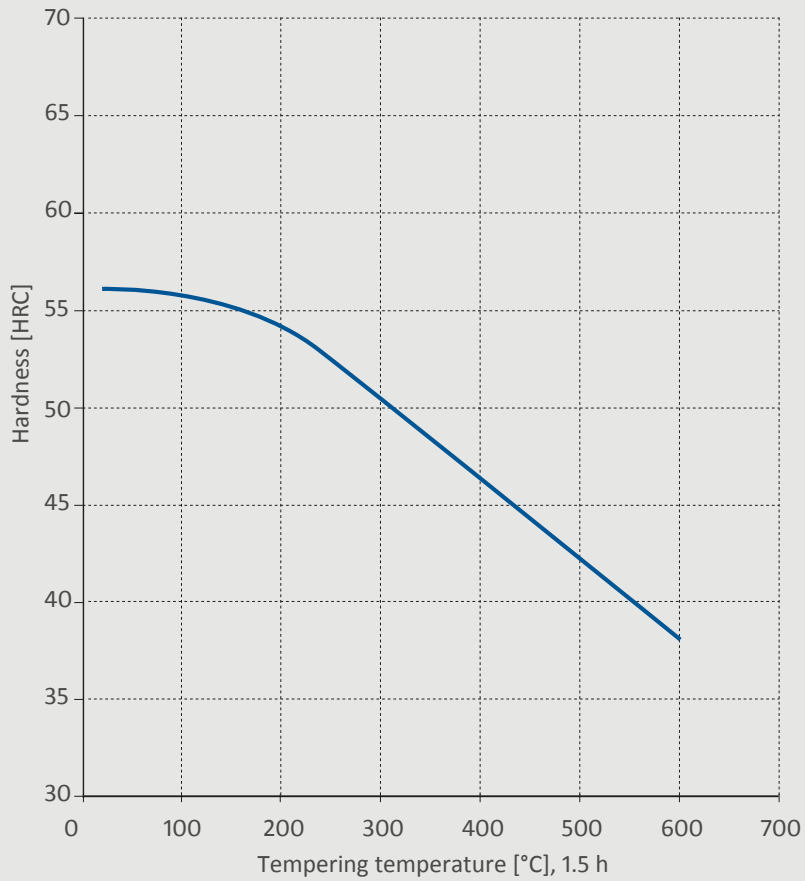
### → APPLICATION

Tool steel for cold and hot work applications. Due to its high impact and compressive strength, this steel is used for heavily burdened tools for cold stamping, punches for cutlery, billet-shear blades, drawing jaws. Also suitable for tools for the hot pressing of aluminium. Moulds for plastics. Its working hardness for compression and injection moulding is about 52 HRC. Its typical working hardness is between 50 and 54 HRC.

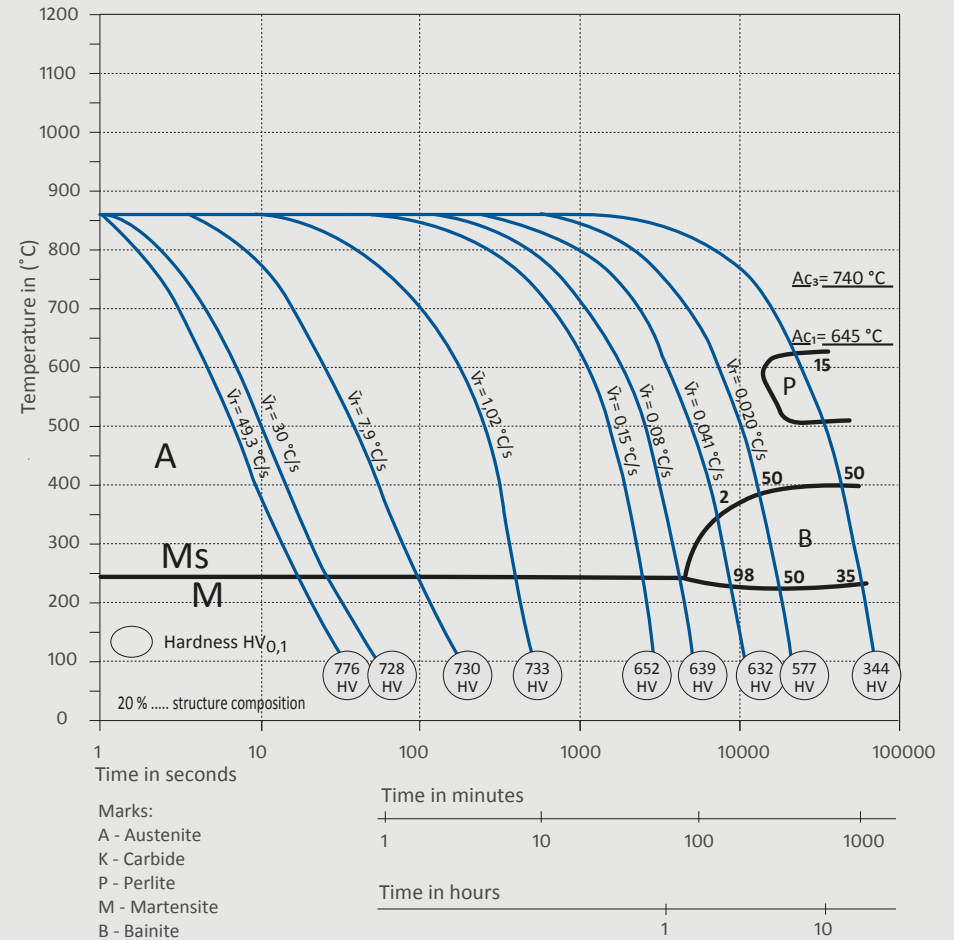
### → ULTRASOUND EXAMINATION

EN 10228-3 art.2-4

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