

Cryodur 2766

(35NiCrMo16)

C 0.35 Si 0.25 Mn 0.50 Cr 1.35 Ni 4.10 Mo 0.30

Steel properties

Dimensionally stable air-hardening steel featuring maximum toughness, polishable. Also supplied with lower carbon and higher chromium content.

Applications

Moulds, dies with deep engravings, plastic moulds und hydraulic chisels.

Heat treatment

Soft annealing °C
590 – 610

Cooling
Furnace

Hardness HB
max. 260

Stress-relief annealing °C
600 – 650

Cooling
Furnace

Hardening °C
820 – 840

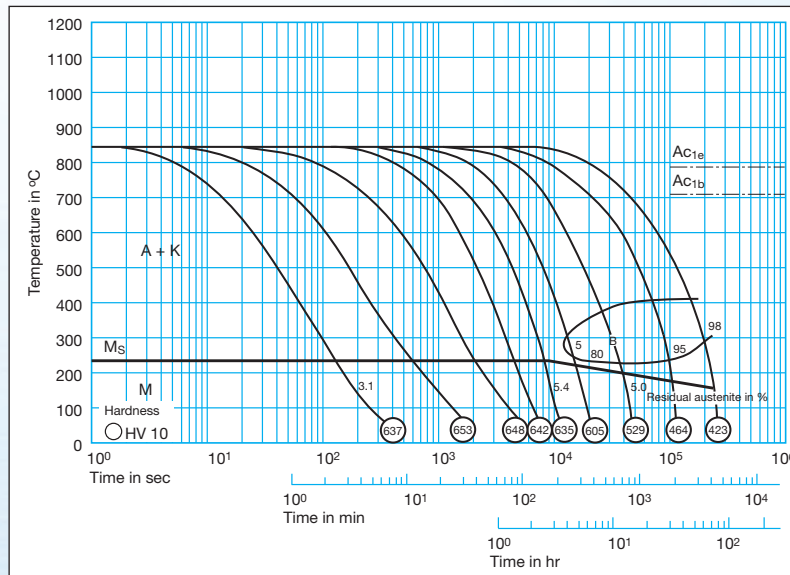
Quenching
Oil or
saltbath, 180 – 220 °C

Hardness after quenching HRC
approx. 58

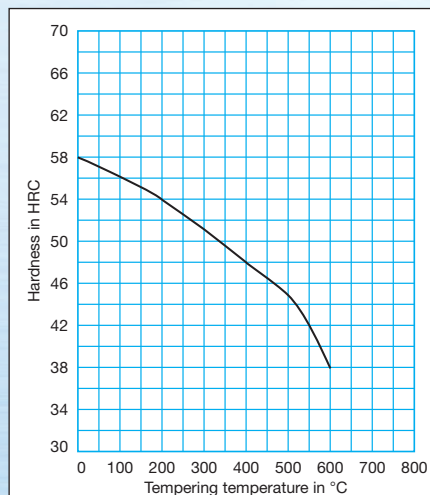
Tempering °C
HRC

100	200	300	400	500	600
56	54	51	48	45	38

Time-temperature-transformation diagram



Tempering diagram



Reference numbers in brackets are not standardized in EN ISO 4957.