

Cryodur 2243

(61CrSiV5)

C 0.60 Si 0.90 Mn 0.80 Cr 1.10 V 0.10

Steel properties Wear resistant, high toughness.

Physical properties

Thermal conductivity at °C	20	350	700
W/(m · K)	33.5	32.0	31.0

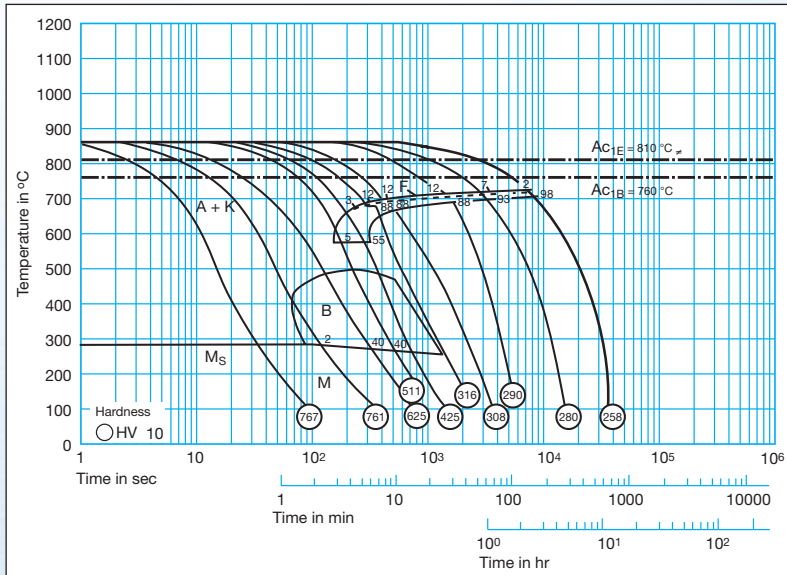
Applications

Cold heading dies, shear blades, section-cutting shear blades and trimming dies, punching tools and bolting tools.

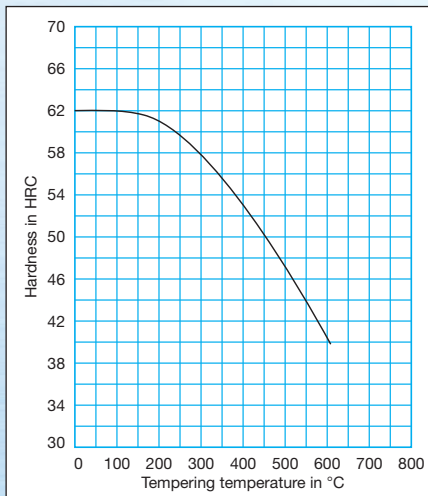
Heat treatment

Soft annealing °C 700 – 740	Cooling Furnace	Hardness HB max. 220
Stress-relief annealing °C approx. 650 – 680	Cooling Furnace	
Hardening °C 850 – 880	Quenching Oil or saltbath, 180 – 220 °C	Hardness after quenching HRC 62
Tempering °C HRC	100 200 300 400 500 600	62 61 57 52 47 40

Time-temperature-transformation diagram



Tempering diagram



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