Cryodur 2510

(100MnCrW4)

C 0.95 **Si** 0.20 **Mn** 1.10 **Cr** 0.60 **V** 0.10 **W** 0.60

Steel properties

Good cutting edge retention, high hardenability and dimensional stability during heat treatment.

Standards

AISI O1 **AFNOR** 90MWCV5

Physical properties

Thermal conductivity			
at °C	20	350	700
W/(m • K)	33.5	32.0	30.9

Applications

Blanking and stamping dies for cutting sheets up to 6 mm thickness, threading tools, drills, broaches, gauges, measuring tools, plastic moulds, shear blades, guide rails.

Heat treatment

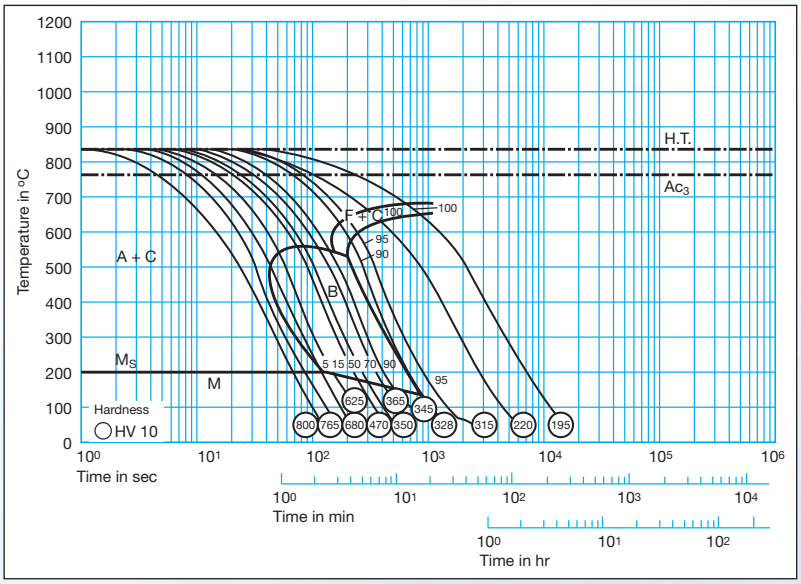
Soft annealing °C	**Cooling**	**Hardness HB**
740 – 770	Furnace	max. 230

Stress-relief annealing °C	**Cooling**
approx. 650	Furnace

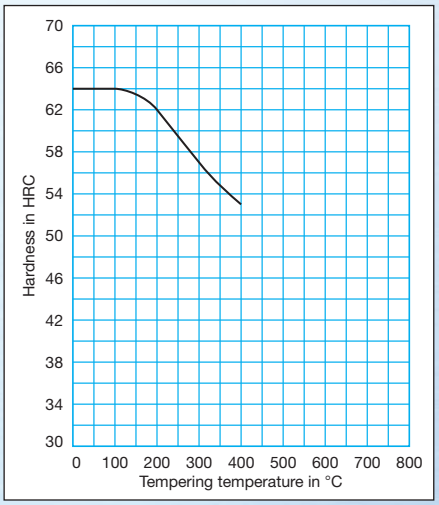
Hardening °C	**Quenching**	**Hardness after quenching HRC**
780 – 820	Oil or saltbath, 180 – 220 °C	64

Tempering °C	100	200	300	400
HRC	64	62	57	53

Time-temperature-transformation diagram



Tempering diagram



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