

# Cryodur 1520

(C70W)

C 0.70 Si 0.25 Mn 0.25

## Steel properties

Shell-hardenable steel with wear-resistant surface and high core toughness.

## Applications

Trimming dies, pliers, tool bits for pneumatic and hand tools.

## Heat treatment

### Soft annealing °C

680 – 710

### Cooling

Furnace, from 500 °C air

### Hardness HB

max. 180

### Stress-relief annealing °C

approx. 600 – 650

### Cooling

Furnace

### Hardening °C

780 – 810

### Quenching

Water

### Hardness after quenching HRC

64

### Tempering °C

HRC

100

200

300

350

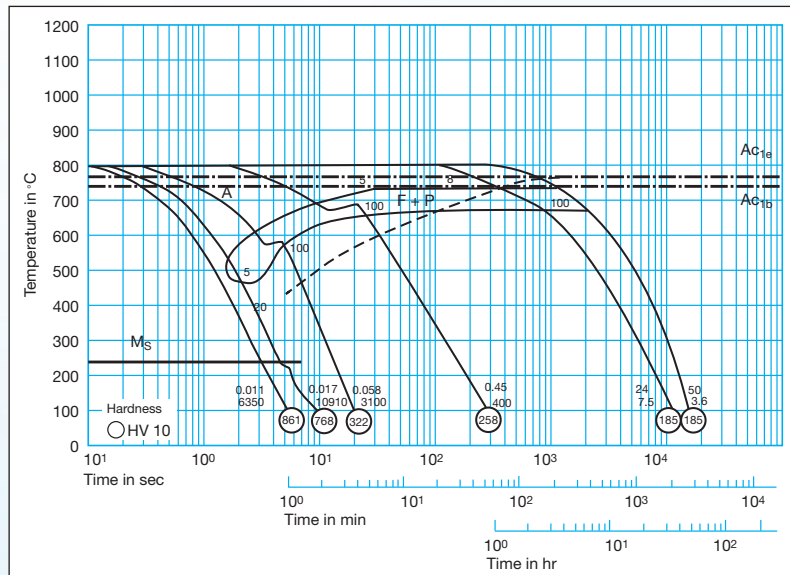
64

61

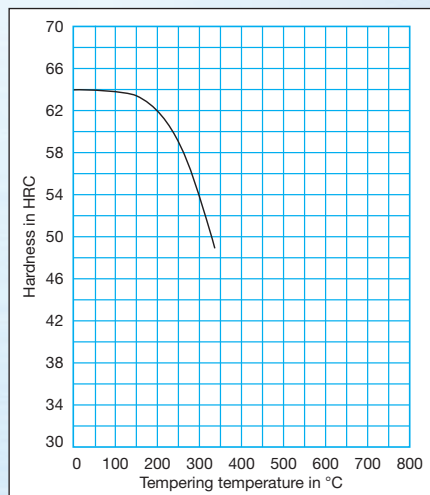
56

49

## Time-temperature-transformation diagram



## Tempering diagram



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