

## Cryodur 2363

X100CrMoV5

C 1.00 Si 0.30 Mn 0.50 Cr 5.00 Mo 0.95 V 0.20

### Steel properties

High dimensional stability during heat treatment. High wear resistance and toughness.

### Standards

AISI A2

AFNOR Z100CDV5

### Physical properties

#### Thermal conductivity

at °C

W/(m • K)

20

15.8

350

26.7

700

29.1

### Applications

Cutting tools, rolls, shear blades, cold pilger mandrels, cold stamping tools, moulds for plastics processing.

### Heat treatment

#### Soft annealing °C

800 – 840

#### Cooling

Furnace

#### Hardness HB

max. 241

#### Stress-relief annealing °C

approx. 650

#### Cooling

Furnace

#### Hardening °C

930 – 970

#### Quenching

Air, oil or  
saltbath, 500 – 550 °C

#### Hardness after quenching HRC

63

#### Tempering °C

HRC

100

63

200

62

300

59

400

57

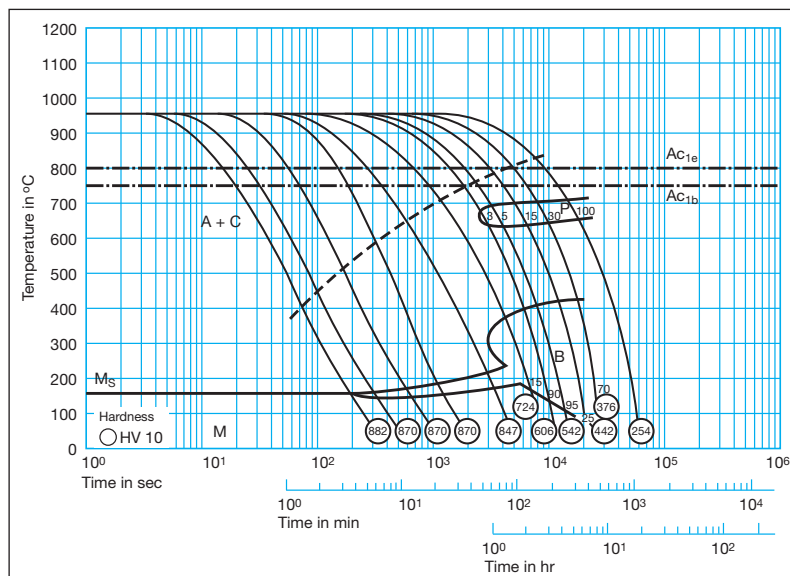
500

59

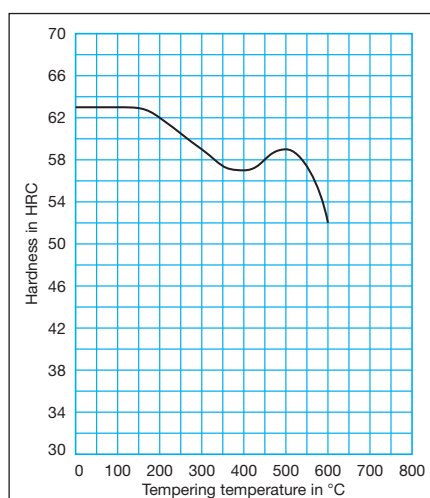
600

52

### Time-temperature-transformation diagram



### Tempering diagram



Swiss  
Steel  
Group