

# Cryodur 2743

(60NiCrMoV12-4)

C 0.58 Si 0.40 Mn 0.65 Cr 1.15 Mo 0.35 Ni 2.85 V 0.10

## Steel properties

Nickel-alloyed cold-work steel with a good combination of wear resistance and toughness.

## Physical properties

### Coefficient of thermal expansion

at °C	20 – 200	20 – 400
10 <sup>-6</sup> m/(m · K)	12.2	12.5

### Thermal conductivity

at °C	20	200	400
W/(m · K)	28.9	30.0	31.0

## Applications

Scrap-shear blades, dies and coining tools, piercing punches.

## Heat treatment

### Soft annealing °C

690 – 700

### Cooling

Furnace

### Hardness HB

approx. 235

### Stress-relief annealing °C

600 – 650

### Cooling

Furnace

### Hardening °C

840 – 870

### Quenching

Oil

### Hardness after quenching HRC

61

### Tempering °C

HRC

100

61

200

59

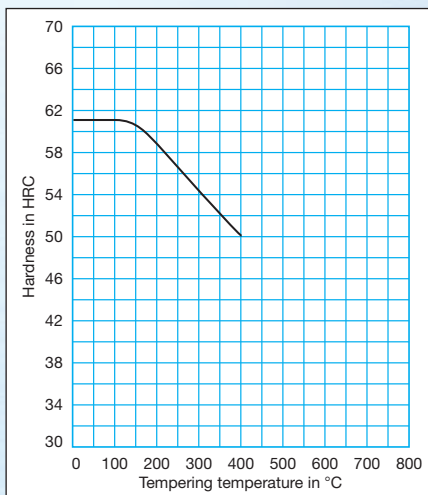
300

54

400

50

## Tempering diagram



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