

2363

X100CrMoV5

C 1.00 Si 0.30 Mn 0.55 Cr 5.20 Mo 1.10 V 0.25

Steel properties

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

Standards

AISI A2 AFNOR Z100CDV5

Physical properties

Thermal conductivity
at °C 20
W/(m · K) 26

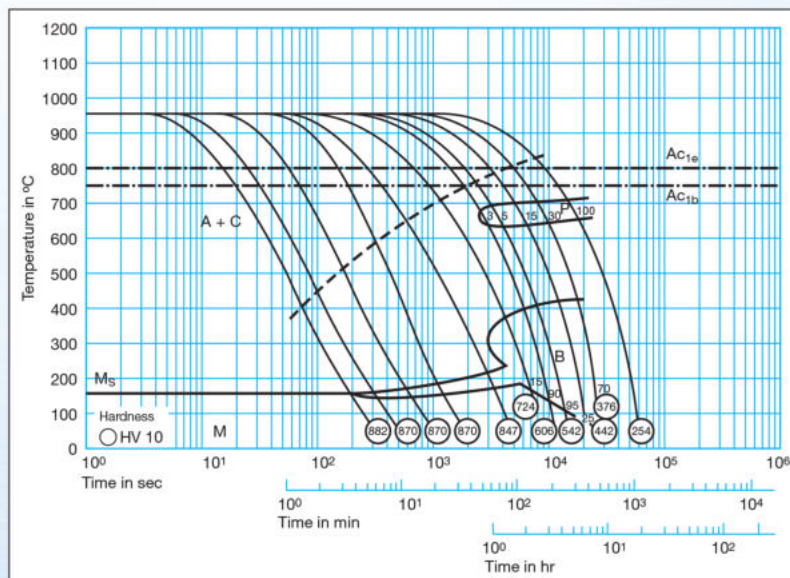
Applications

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. 231
Stress-relief annealing °C approx. 650	Cooling Furnace	
Hardening °C 930 – 970	Quenching Air, oil or saltbath, 500 – 550 °C	Hardness after quenching HRC 60 min
Tempering °C HRC	100 200 300 400 500 600	63 62 59 57 59 52

Time-temperature-transformation diagram



Tempering diagram

