

Formadur 2361

X91CrMoV18

C 0.90 Si < 1.00 Cr 18.00 Mo 1.00 V 0.10

Steel properties

Corrosion-resistant steel for plastic moulding characterized by a very good wear resistance.

Physical properties

Coefficient of thermal expansion

at °C	20	100	200	300	400
$10^{-6} \text{ m}/(\text{m} \cdot \text{K})$	10.5	11.0	11.0	11.0	12.0

Thermal conductivity

at °C	20
$\text{W}/(\text{m} \cdot \text{K})$	29

Applications

Plastic moulds, injection nozzles, valve components and ball bearings.

Heat treatment

Soft annealing °C

800 850

Cooling

Slow, e.g. furnace

Hardness HB

max. 265

Hardening °C

1000 1050

Quenching

Oil

Hardness after quenching HRC

59

Tempering °C

HRC

100	200	300	400	500	550	600
58	56	54	54	54	50	40

Tempering diagram

