

Formadur® 2085

Pre-hardened Mould Frame Steel

Data Sheet
~AISI ~420FM - X33CrS16

Chemical composition in %

C	Cr	S	Ni
0.33	16.00	0.05	0.50

Material Properties

- Pre-hardened corrosion-resistant mould frame steel
- hardness in as-delivered condition of 280 to 325 BHN
- Improved machinability in comparison to Formadur 2316

Typical Applications

- Mould frames
- Mould components
- Plastic moulds

Heat treatment

Soft annealing

Temperature: 850 – 880 °C

Cooling: Furnace

Annealed hardness: 230 BHN max.

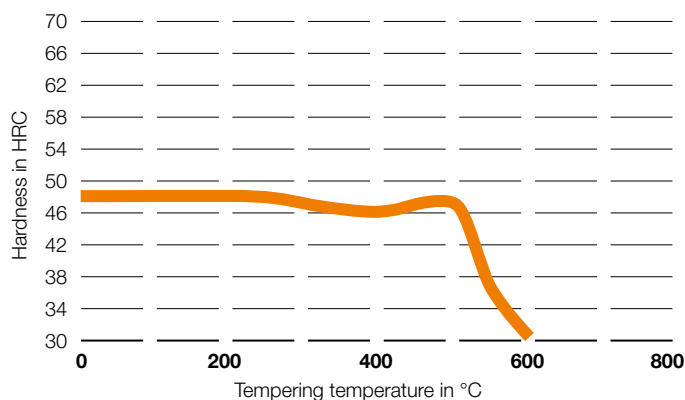
Hardening

Temperature: 1000 – 1050 °C

Quenching: Oil

Hardness after quenching: 48 HRC

Tempering



Time-temperature-transformation

