

Formadur® 2190 Superclean Corrosion-Resistant Steel

Data Sheet
X37Cr13

23.04.26 REV.1.

Chemical composition in %

C	Si	Mn	Cr	V
0.37	0.90	0.50	13.60	0.30

Material Properties

- Corrosion-resistant
- Very good polishability

Typical Applications

- Moulds for processing plastics with corrosive reactions

Physical Properties

Coefficient of thermal expansion in 10^{-6} m/(m.K)

	Quenched and tempered
20-100 °C	10.7
20-150 °C	11.0
20-200 °C	11.2
20-250 °C	11.5
20-300 °C	11.7
20-350 °C	11.9
20-400 °C	12.1
20-450 °C	12.3
20-500 °C	12.4

Thermal conductivity in W/(m.K)

	Quenched and tempered
23 °C	21.5
150 °C	23.2
300 °C	23.9
350 °C	24.3
400 °C	24.2
500 °C	24.0

Heat Treatment

Soft annealing	760-800 °C	Furnace	≤ 230 HB
Hardening	1000-1050 °C	Oil or saltbath, 500-550 °C	56 HRC after quenching
Tempering	100 °C		56
	200 °C		55
	300 °C		52
	400 °C		51
	500 °C		52
	600 °C		40

Tempering

