PLASTIC MOULD STEEL

1.2316 (X38CrMo16)

acc. to DIN EN ISO 4957

Excellence in Specialty Steel

Typical Composition Mass-%

C	Si	Mn	Cr	Mo	Ni
0,38	0,30	0,75	15,85	1,05	0,55

Properties

1.2316 is a highly alloyed martensitic mould steel with good toughness in combination with good machinability and polishability.
The usage of chromium as an alloying element provides improved corrosion resistance.

Delivery Condition

- quenched and tempered, (+QT), max. 300 HBW

Application Area

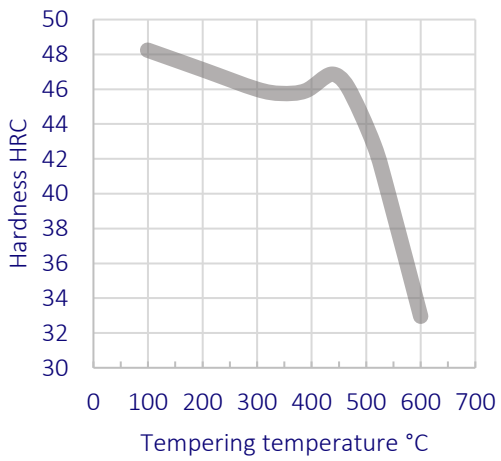
Highly stressed tools and moulds for processing of corrosive polymers and plastics.

Typical Applications

- Plastic moulds
- Blow moulds
- Extrusion tools, screws, barrels
- Components for food industry

Heat Treatment Guideline Values

		Temperature [°C]	Cooling medium
Quenching and tempering (+QT)	Hardening	1020 - 1050	Oil, polymer
	Tempering	See below	Air



Tempering graph: quenched and tempered condition

Quality

- ISO 9001
- ISO 14001
- ISO 50001
- Approvals acc. to standards like ABS, BV, DNV ...
- Customer specific approval certificates

Innovation

- Fully automated ultrasonic testing up to dia. 1000 mm
- CO_2-reduction by innovative heat treatment solutions

Flexibility

- Product range from fine wire to forging
- Directly from stock close at hand

Individuality

- Dimensions
- Tolerances
- Surface qualities
- Delivery conditions

Your personal contact:

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