

Typical Composition Mass-%

C	Si	Mn	Cr	S	Others
0,06	0,40	1,1	12,3	0,10	Cu, N

Properties

BGH INOX IM ONE is a Cr-alloyed martensitic steel with improved machinability (IM) and offers good corrosion resistance. It has a high dimensional and shape stability as well as uniform hardness.

BGH INOX IM ONE provides excellent weldability and good thermal conductivity.

Delivery Condition

- ✖ Pre-hardened (+QT) to max. 320 HBW, no further heat treatment required

Application Area

Tooling for plastic moulding with demands on corrosion resistance during operation and storage.

Typical Applications

- ✖ Plastic moulds base tooling
- ✖ Plastic and rubber moulds
- ✖ Plastic extrusion

Mechanical Properties longitudinal

Yield strength [N/mm ²]	Tensile strength [N/mm ²]	Elongation [%]
≥ 790	≥ 895	≥ 12

Physical Properties

Temperature [°C]	20	100	200
Thermal conductivity [W/m·K]	-	27,5	28
Specific heat capacity [kJ/kg·K]	-	0,50	0,54
Density [g/cm ³]	7,8	-	7,75

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
- CO₂-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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