

BGH GLASS ONE

Typical Composition Mass-%

C	Cr	Ni	Mo
0,15	15,5	2,00	-

Properties

BGH GLASS ONE is a Cr-Ni-alloyed martensitic stainless tool steel especially developed for the glass industry. It is high-gloss polishable and shows outstanding hardness values as well as wear resistance and high resistance to corrosion.

Due to our special melting process in combination with the customized hot forming and heat treatment, BGH GLASS ONE outperforms the standard grade (X22CrNi17 / X17CrNi16-2) regarding microstructure, cleanliness and homogeneity, making the use of ESR-grades redundant.

Delivery Condition

✂ quenched and double tempered (+QDT)

Mechanical Properties longitudinal

Condition	Hardness [HRC]
+QDT	32 - 36

Micro-purity acc. to DIN 50602, Method K

Parameter	Value
K1 _{ox}	≤ 10

The degree of purity of BGH GLASS ONE meets the requirements of an ESR product on the work surfaces.

Application Area

Highly stressed tools for glass moulds requiring superior surface quality and resistance against wear and temperature changes. Suitable for large production batches.

Typical Applications

- ✂ Moulds for tableware
- ✂ Moulds for technical and hard glass
- ✂ Moulds for optical glasses
- ✂ Moulds for electrical cookers

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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