

BGH CUT ONE

Typical Composition Mass-%

C	Si	Cr	Mo	V	W
1,1	1,1	7,8	1,4	2,3	1,1

Properties

BGH CUT ONE is a high performance cold working steel, optimized for wear resistance and cutting edge stability.

By specifically choosing the alloying concept and utilizing V-Mo-W-carbide structures the wear resistance of 1.2379 is exceeded by far without reducing the impact toughness (Fig. 1).

BGH CUT ONE is an economical and high-performance alternative to PM-steels. Heat treatment parameters basically correspond to those of 1.2379.

Delivery Condition

✂ annealed (+A), max. 250 HBW

Application Area

For highly stressed tools demanding long service life under abrasive wear.

Typical Applications

- ✂ Moulds and forming tools
- ✂ Shear blades, recycling- and industrial knives
- ✂ Thread rolling tools
- ✂ Blanking or fineblanking tools

Heat Treatment Guideline Values

	Temperature [°C]	Cooling medium
Annealing (+A)	900	Furnace to 540 °C, air
Stress relieving (+SR)	600 - 700	Furnace to 540 °C, air
Quenching and tempering (+QT)	1010 - 1090 (Hardening) 510 - 540 (Tempering)	Air, nitrogen (min 5 bar), polymer Air, triple tempering recommended

Material characteristics

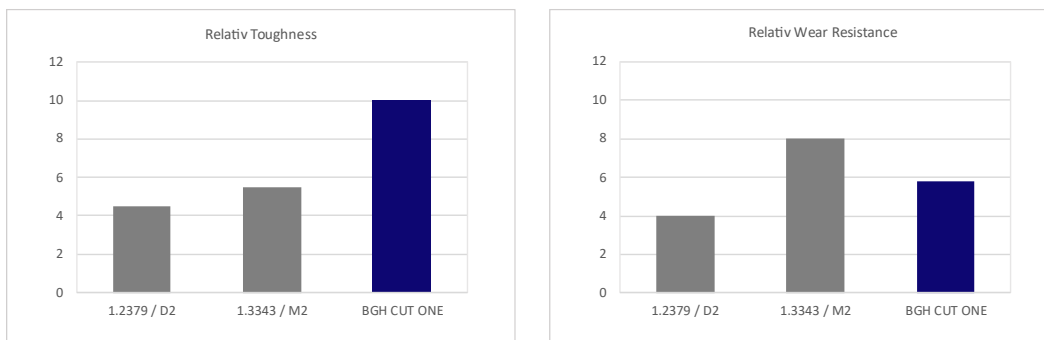


Fig. 1: Properties of BGH Cut One and comparable tool steels

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:

BGH Edelstahlwerke GmbH

Am Stahlwerk 1
01705 Freital
+49 351 646-0
www.bgh.de

