BGH Cut One



Excellence in Specialty Steel

Typical Composition Mass-%

С	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.

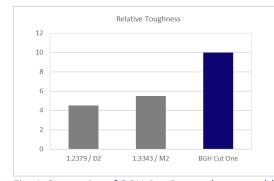
Typical Applications

- Moulds and forming tools
- \$\$ Shear blades, recycling- and industrial knifes
- ☼ 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



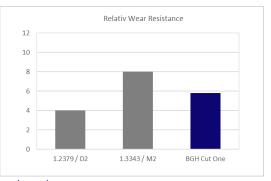


Fig. 1: Properties of BGH Cut One and comparable tool steels

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

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