BCA-ROD Abrasive Grains

Precision-shaped ceramic grains for unequalled stock removal rates

Premium grinding tools since 1919
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Tyrolit BCA-ROD Abrasive Grains

With BCA-ROD, Tyrolit defines a new performance level for rod-shaped ceramic grains. Selected, high-quality raw materials and a carefully optimized production process result in a grain with significantly improved grinding properties. Unique self-sharpening properties in combination with high durability (long wheel life) enable unrivaled stock removal rates and help in the creation of highly optimized grinding processes.

Physical properties

Colour	Hardness	Specific density	Type
Blue	19 – 21 GPa	>3.86 g/cm³	Non-seeded sol-gel

Chemical composition

	Al_2O_3	MgO	Y_2O_3	La_2O_3	CoO	Traces
in %	94 – 96	0.8 – 1.8	0.6 – 1.6	2.2 – 3.2	< 0.2	SiO_2, Fe_2O_3, TiO_2, CaO

Applications:

BCA-ROD is a precision-shaped grain particularly suitable for applications where a high removal rate is required, such as gear grinding or creep feed grinding of airfoils. It shows its benefits especially when grinding difficult materials such as titanium and nickel alloys. In addition, BCA-ROD significantly reduces the diamond dressing tool consumption in comparison to competing grains.

Grit	Bulk density Min. – Max. g/cm³	Diameter µm	Aspect ratio	Coarse fraction
S60	1.80 – 2.10	200 – 300	2.8 – 4.0	0-5%
S90	1.75 – 2.05	170 – 220	3.0 – 4.2	0-5%
S120	1.70 – 2.00	135 – 185	3.0 – 4.4	0-5%

Precision-shaped grains for high stock removal applications

Tyrolit - Schleifmittelwerke Swarovski AG & Co K.G..
Swarovskistraße 33 | 6130 Schwaz | Austria | Tel +43 5242 606-0 | Fax +43 5242 63398