

## HIGH-PERFORMANCE CERAMICS

### FINE GRINDING TOOLS

**Application:**

Grinding, whetting, deburring

**Material:**

Sintered ruby **DEGUSSIT DD57**

Oxide-ceramic fine grinding tools made of **DEGUSSIT DD57** consist of a mixed crystal with exceptional hardness, mainly composed of alumina. The characteristic red colour of the tools results from adding small amounts of chromic oxide. The crystal occurs naturally as ruby.

**DEGUSSIT DD57** is a binder-free, densely sintered material with diamond-like hardness. The roughened surface produces the grinding effect and the crystalline structure allows extremely enhanced service lives of tools.

Excellent surface qualities can be achieved when machining hard materials using **DEGUSSIT DD57** tools instead of plastic or metalbound grinding materials. An individual grain in a bond will damage the surface. Machining with **DEGUSSIT DD57** prevents this defect.

Files or whetstones are used to whet all kinds of tools or to cut small bevels into hardened tools.

Smallest files have a particularly dense structure. The delicate files are fixed to sockets that are screwed into a holder supplied with the file which ensures that even the smallest file fits safely in the hand.

**Fields of Application:**

- ▶ Tool and mould-manufacture
- ▶ Instrument making
- ▶ Precision mechanics, clock and watch industry
- ▶ Optical industry
- ▶ Glass and ceramics industry

Non-standard shapes are available if required.

- ▶ Extreme hardness
- ▶ Exceptional durability of edges and profiles
- ▶ High resistance to wear
- ▶ Outstanding surface quality of the work-pieces

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### Competence in Advanced Ceramics Engineering for customized solutions

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