Premium carbide for biocompatible tools in medical and dental technology

CERATIZIT is a high-tech engineering group specialised in tooling and hard material technologies.

Tooling the Future
www.ceratizit.com
New Premium carbide grades
to DIN EN ISO 10993-5
for medical and dental tools

For over 30 years, CERATIZIT has been supplying standard and customised solutions for dental tools based on specially developed carbide grades.

Extremely hard, tough carbide blanks resistant to breakage and heat demonstrate maximum performance and are many times superior to conventional steel products.

The demand for biocompatibility in the field of medical products raises standards of patient safety. For dental tools which are directly in contact with the tissue for a short time, cell tolerance has to be guaranteed.

The new carbide grades from CERATIZIT are checked for in-vitro cytotoxicity according to DIN EN ISO 10993-5 by the accredited test laboratory Creamedix GmbH.

Accredited biological control of in-vitro cytotoxicity according to DIN EN ISO 10993-5 by Creamedix GmbH
Accreditation number: D-PL-19876-01
Unique range for a variety of application fields

No matter whether you need a standard stock product or a customised blank, CERATIZIT supplies specific carbide grades for high-quality medical technology, to be used in tools such as drills, burrs, needle holder tips, forceps and many others.

Choose from a unique spectrum of carbide grades with a huge variety of properties for your application:

- Metal-ceramic/Full ceramic
- Precious metal alloys
- Alloys with reduced precious metal content
- Non-precious metal alloys
- Chrome cobalt alloys (CrCo)
- Chrome nickel alloys (CrNi)
- Titanium
- Crown and bridge materials
- Denture acrylics and plate materials
- Dental plasters
- Soft plastics
- Bones / tissue / tendons

If you need sintered or ground carbide blanks, just give us a call – we will help you find the best and most economical solution.

CERATIZIT is the only producer worldwide that creates the specific pyramid profile already at the pressing and sintering stage, saving you time, money and overall work effort.

Individual expertise in solutions

Experts with the highest technological qualifications will advise you personally on the selection of the carbide grade most suitable for your tools.
# Premium carbide grades to DIN EN ISO 10993-5

## Carbide grades

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## Cermet grades

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Tungsten carbide

www.ceratizit.com
Customer-specific blanks and ground semi-finished products for medical tools

CERATIZIT is one of the few carbide manufacturers who manages the entire process chain single-handedly: from ore extraction to the ready-to-use product. Benefit from our high level of vertical integration and the reliability of a strong partner.

Our technology experts create customer-specific blanks which you can rapidly give an individual finish for your customer. We can supply sintered or ground blanks for numerous medical and laboratory applications.

We will be happy to support you with our expertise and experience to enable you to realise your specific tooling design as efficiently as possible.

Surface treatment

In order to make brazing or welding on the steel shaft easier, the blanks can be subjected to surface treatment. We will be happy to advise you on your individual needs!

Pre-shaped blanks (DFR R)

Individually designed to meet customer requirements

- You can also count on receiving customised blanks and semi-finished tools for the production of rotating cutting tools
- Production is based on an individual design, in keeping with the customer’s drawings
- We will be happy to advise you on the wide range of options, and help you select the best grade for your application

Production expertise

- Decades of experience in combination with ultra-modern production facilities and highly qualified personnel make us the experts when it comes to the machining of blanks
- With the help of our innovative production resources, even complex geometries can be manufactured in near net shape at the shortest notice
- We have the expertise and are familiar with the specifications, like the allowances and sintering tolerances, and so can achieve maximum accuracy in the final product