

Cleaning recommendation for BALINIT® PACVD-coated surfaces

The PACVD process is used to apply a very thin, diamond-like carbon-based coating (DLC) to the surface of a mostly high-gloss polished tool/component. The coatings are twice as hard as cemented carbide but only 2-3 µm thin, making them just 1/10 of the thickness of a human hair.

Recommended cleaning procedure

Caution!

Coatings are hard and offer high wear protection, but that does not mean they are indestructible. Appropriate use of the tool will increase the lifetime of the coating.

Cleaning when cold

- Blast with dry ice (CO₂)
- Clean with ≤ 3µm diamond paste
- Ultrasonic cleaning with an alkaline cleaning agent at max. 60°C

Do not use

- Mechanical cleaning devices such as rotating brushes or similar
- Cleaning devices made out of steel or tools coated solely with brass
- A flame for heating/cleaning, as temperatures > 300°C will destroy the coating
- Scouring agents
- Alumina or other abrasives for dry blasting
- Sandpaper with coarse grit < 1200
- Acidic cleaning agents → leads to corrosion

Surfaces such as high-gloss polished and/or structured surfaces may require different types of cleaning. Please contact your Oerlikon Balzers representative if you have any questions. Any liability is excluded.