

## **Flowing smoothly**

BALINIT MILUBIA increases the performance and reliability of ceramic sealing discs for high quality sanitary fittings



# BALINIT MILUBIA brings you a smooth and precise operation

BALINIT® MILUBIA reduces friction and increases the performance and reliability of ceramic discs of sanitary fittings. Mixer taps with BALINIT® MILUBIA coated discs operate smoothly even without grease.

## Advantages

### Low friction, high wear resistance

The low friction and high wear resistance of BALINIT® MILUBIA coatings enable long-term low operation forces.

### Lime inertness

The chemical nature of BALINIT® MILUBIA coatings reduce lime deposition and the corresponding negative effect on friction and wear.

### Smooth and precise operation

The temperature control of thermostats and electronically operated valves work precisely.

### Drinking water approvals

- German certificate from Hygiene-Institut des Ruhrgebiets
- WRAS approval-number 1904511, United Kingdom

## Applications

BALINIT® MILUBIA coated ceramic seal and valve applications include

- Mixer tap and thermostat valves
- Valves for industrial coffee machines

## Coating specifications

	BALINIT® MILUBIA
Coating material	ta-C*
Microhardness	> 35 Gpa
Typical coating thickness [µm]	Approx. 1
Friction against alumina	0.1
Deposition temperature [°C]	< 100
Colour	Black

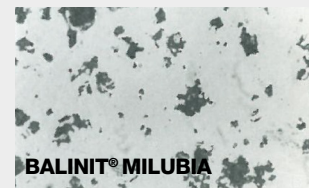
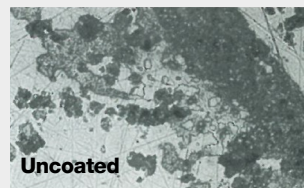
\*tetrahedral amorphous carbon

All given data are approximate values and dependent on application, environment and test conditions.



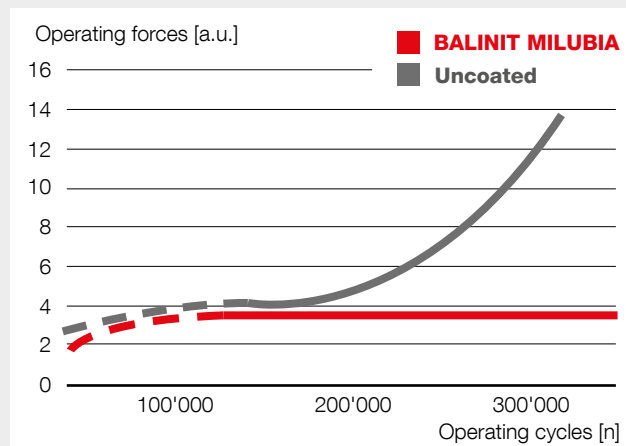
### Constantly low actuation forces and resistance against premature wear

Surfaces of coated and uncoated ceramic discs after 100'000 operating cycles.



Significant signs of premature wear and lime deposition can be seen on the uncoated sealing disc.

The run-in surface has no wear scars. Ceramic pores are visible as the coating replicates the original surface.



BALINIT® MILUBIA on ceramic seal discs shows constantly low operation force when assembly grease is washed away after long time use.

## Benefit from the BALINIT MILUBIA coating solutions Contact us now!

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