



# DF 905

## MICRO-PE DRY LUBRICATION FILM

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microGLEIT DF 905 is a water based suspension of microWHITE solid lubricants — no hazard labelling required! The transparent, semi-matt dry film provides excellent lubrication properties.

### Product Features

microGLEIT 905 yields a transparent, glossy, dry lubricating film.

- DF 905 is designed to achieve defined, reproducible friction values with lowest scattering.
- High abrasion resistance
- The layer is (almost) not visible but can be detected by means of UV-light.
- High adhesion on a wide variety of materials
- No impact on the substrate material
- No subject of hazard labelling, environmentally friendly
- Good suitability for automatic parts feeding and automatic bolting

### Product Application

The field of application for microGLEIT DF 905 are mass-parts, which have to be coated economically for defined friction values.

The coating is used to achieve a defined, predictable frictional behaviour, thus enabling easier and faster assembly. The dry lubricant replaces oil or grease lubrication.

- Typically DF 905 is applied on:
  - Aluminium bolts and nuts
  - Electroplated bolts and nuts
  - Bulk-parts with inorganic surface coatings
  - Dowels
  - Anchor bolts
  - etc..

### Instructions for Use

- microGLEIT DF 905 is supplied as a concentrate - please protect from frost!
- Before application microGLEIT DF 905 has to be diluted with water (at least drinking water quality). The water is added to the product slowly with constant stirring.
- The parts to be coated have to be free from oil and dirt.
- For best film building we recommend to preheat the parts to approximately 40–50 °C / 104–122 °F.
- After wetting of the parts they have to be dried with hot air at ~50– <60 °C / 122–140 °F.
- In order to avoid condensation water on the parts, we recommend to pack the parts only after cooling down to ambient temperature.

- It is important to control the bath concentration regularly — please ask us for instructions.
- The pH-Value must not drop below 8 (please avoid contamination of the coating bath by acids from previous process steps).
- In order to prevent unwanted foaming of the coating bath, too heavy circulation or stirring of the bath should be avoided. A suitable anti-foam additive can be ordered under the name ‚microGLEIT AF-90‘.
- Keep bath and container closed in order to avoid unwanted evaporation and contamination!

## Typical Properties **microGLEIT DF 905**

Test/Feature	Standard/ Parameter	Unit	DF 905	
Appearance (as delivered)	visually	—	whitish liquid	As Delivered
Density	DIN 51757	g/cm <sup>3</sup>	~ 1,0	
Viscosity	DIN 53211 / 3 mm	s	~ 28 ± 4	
Thinner	—	—	water („drinking water quality or demineralised“)	
pH-Value	—	—	8 - 11	
Available Container Sizes	—	—	20 kg closed head plastic pail 200 kg drum – 600/1000 kg IBC	
Usable Life - Closed original container		months	12	
Handling Precautions	—	—	none	
Appearance	visually	—	semi-matt, transparent	Applied
Service Temperature	—	°C / °F	-40 to +120 / -40 to 248	
Friction value $\mu$	Screw-Test		0,11 - 0,13	

### Dilution Ratio (DF 905 : Water) Depending on Coating Process and Specific Requirements

Centrifuge	Immersion Drum	—	Process
1 : 1to 1 : 3	—	—	