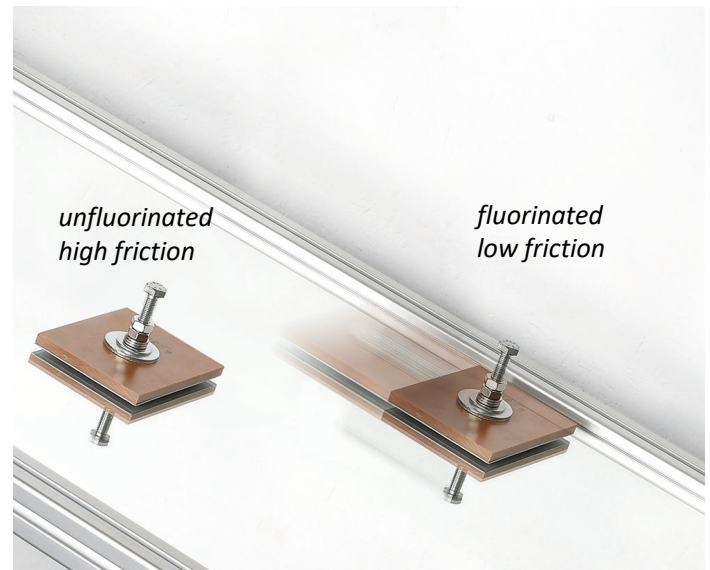


# Optimized treatment parameters for the gas phase fluorination of silicones

## Transfer offer

INNOVENT supports you within the development of gas phase fluorinated silicones for your applications. Do you need surfaces with reduced friction, do you have a problem with adhering dirt, do you want to improve the haptic behaviour? Do you want to use fluorinated silicones in medical applications? Then we will support you in cooperation with a contract fluorinator, Fluor Technik System GmbH, in optimizing the parameters to get the most out of the advantages of the material.



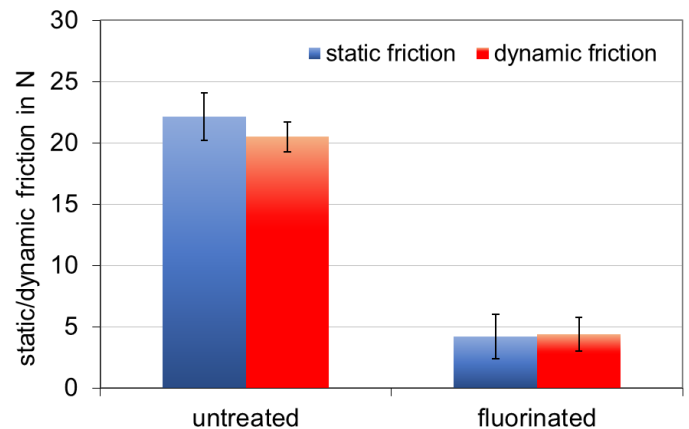
*Different friction behaviour of untreated and fluorinated silicones in the tilt test*

## Technical solution

Not only in the fluorination of silicones the principle applies: as much effect as possible with as little fluorine as necessary. We support you in the finding and selection of process parameters, so that although your requirements are met, but the negative consequences of possible over-treatment, such as HF residues, cracks and haze, are minimized. Fluor Technik System GmbH, with its equipment and experience, will be pleased to take over the technical implementation for you.

## Advantages

- **Assembly is made easier by lower, reproducible friction and fewer stick-slip effects**
- **No talcum powder necessary**
- **Fluorinated silicone surfaces have a more pleasant haptic behaviour**
- **Reduced stickiness – less dirt adhesions**



*Comparison of static and dynamic frictional forces of untreated and fluorinated silicones*



*Comparison of soiling tendency of fluorinated and untreated silicone surfaces*

## Level of development and property rights

Due to many years of experience, empirical values are available which allow an optimization with only a few tests. Due to the large number of available materials, however, tests are always necessary.

The implementation is subsequently carried out at Fluor Technik System GmbH.