

Fixodrop W

an antispreading agent

An antispreading agent is a surface coating which prevents liquid lubricants from spreading by reducing the surface tension of the supporting material.

Fixodrop W eliminates almost all cases of uncontrolled oil creeping, even in plastic mechanism where, as experience shows, the oils have a high tendency to spread.

Surface treatment with Fixodrop assures long-term safety with only a little additional expenditure.

Surface treatment with Fixodrop is imperative if a mechanism lubricated with thin flowing low temperature oils is to remain functional in a wide range of temperatures over an extended period of time.

Fixodrop can also be used to form a barrier when creeping of the oil onto undesirable places has to be prevented (e.g. electrical contacts).

Surface treatment with Fixodrop is imperative if noise reduction must be obtained by using specific oils.

Fixodrop W is a chlorine free and economical antispreading agent based on water. The active substance is a highly active fluorinated component.

- Fixodrop W is not resistant against washing. The coating can be removed with alcoholic and aqueous rinsing agents.
- Fixodrop W is neither toxic nor flammable.

- Fixodrop W is suitable for all conventional construction materials such as ruby, steel, brass etc.
- Also almost all plastics can be treated efficiently with Fixodrop W. While developing this product special attention was given to the achievement of best results even in critical cases such as application on glass-fiber reinforced plastic or Delrin 500 CL.
- None of the plastics known by us has suffered from negative influences when under compatibility tests with Fixodrop W.

Field of Application

Fixodrop assures the highest possible security in precision instruments and micromechanical devices, where frequently long-term warranty and utmost reliability are required.

Fixodrop has been used successfully for years in the following fields of application:

- cameras, shutters, lenses
- counting and measuring devices
- electrometers
- board instruments in cars and aircrafts
- medical and meteorological instruments
- relays, safety switches
- mini ball bearings
- time fuses
- mechanical watches and quartz movements of all sizes and constructions



Fixodrop W

Mode of Application

- All parts in contact with the oil must always be treated.
- Prior to Fixodrop treatment the parts must be cleaned and dried.
- The parts are then immersed in the Fixodrop bath for 10 to 30 seconds and slightly moved.
- After dipping the pieces are shaken or dried in a drum with a warm-air current of approximately 60° C. To achieve a reduction of the drying process the use of a vacuum chamber is recommended.
- The somewhat higher surface tension results in a thicker material layer. Sturdy centrifuging and exposure to an overly strong air-current must therefore be avoided, because the spinning off of the solution may avoid the homogeneous formation of the Fixodrop film.
- The Fixodrop bath must be protected from dust with a cover.
- The purity of the bath should be checked regularly. If after some time the solution contains dust and suspended particles (mechanical impurities) a filtration is necessary.
- Fixodrop W can be applied by spraying only under special conditions.
- The pallet-stones should only be oiled after a dry-run of 1-2 minutes.
- Due to the composition of the active substance a yellow colour may result when exposed to light which does not affect the efficiency of the Fixodrop film.

Mixing Instructions

Prior to dilution the bottle must be shaken strongly, even if only part of the contents is required. The bottle must be rinsed after emptying.

Evaporation Rates:	Ether =	1
	Frigen 113	1,5
	Fixodrop FK	approx. 2
	Fixodrop IPA	7
	Fixodrop W	27

Technical Data of the Fixodrop W Solution

Active substance	surface active fluorinated component
Solvent	demineralized water
Density	1,0 g/cm ³
Boiling point	100° C
Flash point	non flammable
Toxicity	non toxic

Technical Data of the Fixodrop W Film

Surface tension	lower than 16 dyn/cm ⁻¹
Temperature limit	up to 180° C

Fixodrop W Sales Program

8970	concentrate W
8971	ready-to-use solution W-10
8972	ready-to-use solution W-20

The ready-to-use solution W-20 can only be recommended when used on production level with excellent working conditions and regular check up.



MOEBIUS

The Swatch Group R&D Ltd
Division Moebius
Kreuzenstrasse 30
CH - 4452 Itingen