

Synthetic Oils for Precision Micromechanics

MOEBIUS SYNT-A-LUBE 9010, SYNTA-VISCO-LUBE 9020 and SYNTA-FRIGO-LUBE 9030:

These are high quality synthetic lubricants containing unsaponifiable ether and alcohol groups (Alkyl-Aryl-Oxydibutylenglycols) with a wide range of possible applications. MOEBIUS synthetic oils do not gum up or age and are highly compatible with plastics such as polyacetals (e. g.

Delrin®), polyamide and polycarbonate. MOEBIUS synthetic oils guarantee excellent adherence, and when used under normal conditions they do not spread. Changes in humidity do not affect the coefficient of friction.

MOEBIUS synthetic oils are non-toxic. They are very compatible with copper alloys and exhibit no residue in low temperature usage.

Technical Data	9010	9020	9030
viscosity at 0°C	625 cSt	1450 cSt	180 cSt
viscosity at 20°C	150 cSt	270 cSt	60 cSt
viscosity at 50°C	31 cSt	45 cSt	16 cSt
pour point	-40°C	-40°C	-50°C
surface tension at 25°C: dyn/cm	33,8	34,5	32,5
contact angle on ruby	22-25°	24-29°	19-23°
contact angle on steel	15-18°	20-24°	14-17°
density at 20°C	0,907	0,920	0,908
evaporation loss after 5 days at 100°C	0,5%	0,4%	0,5%
temperature range for usage	-29 to +70°C	-18 to +80°C	-41 to +60°C
Baader ageing test: change in viscosity after 12 days	+2%	+1%	+2%

SYNT-A-LUBE 9010: This is a high quality synthetic lubricant with a wide range of application in precision micromechanics.

SYNTA-VISCO-LUBE 9020: This lubricant is mainly used in precision mechanics where medium and high pressures are to be expected.

Thanks to selected additives, it can resist higher pressures than SYNT-A-LUBE 9010.

SYNTA-FRIGO-LUBE 9030: This is used in precision micromechanic mechanisms which are to be exposed to low temperatures. Mechanisms to be oiled with 9030 are usually precoated with an antispreading agent (Fixodrop).



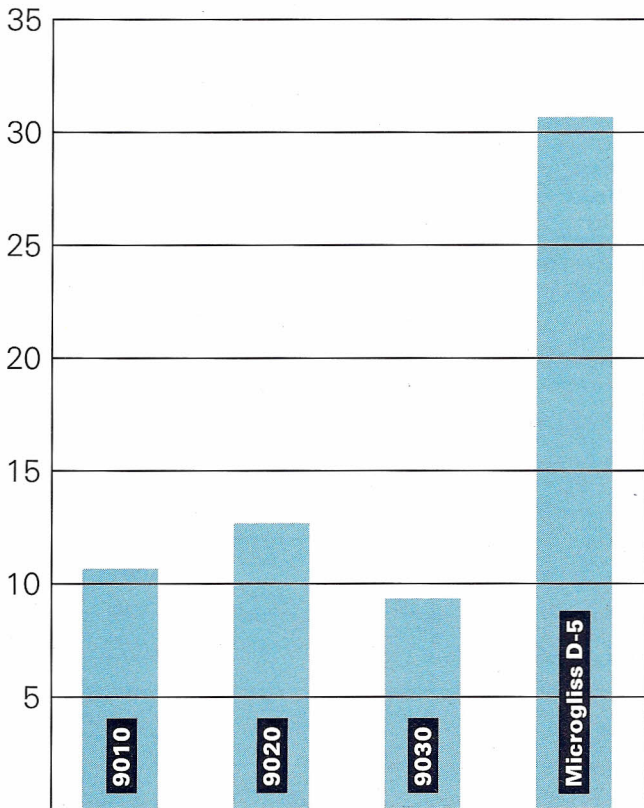
Range of application

The MOEBIUS synthetic oils are generally used in the precision micromechanic industry, where there is a need for top quality and long life span. The main fields of application are:

- board instruments for aircraft, ships and cars
- watches, clocks and time switches
- micromotors, stepmotors

- meters and recording equipment for meteorological purposes
- meters for electricity and gas
- cameras and optical instruments
- floppy disk drives and computer printers
- mini cassette recorders
- miniball bearings

Maximum load for various oils



First seizing in kp



MOEBIUS

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