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» **Classic oils for watchmaking and micromechanics.**



Moebius 8000

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.8000-004	4 bottles of 1 ml	-15...+80	280	95	29	0.019
28.8000-010	10	-15...+80	280	95	29	0.022
28.8000-250	250	-15...+80	280	95	29	0.620

Classic oil for general purposes. Suitable for **wrist-watches and pocket watches**, except springs and winding mechanisms.

Yellow and limpid aspect.



Moebius 8030

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.8030-020	20	-18...+80	440	115	31	0.055
28.8030-250	250	-18...+80	440	115	31	0.620
28.8030-1L	1000	-18...+80	440	115	31	1.600

Classic oil for clocks, **music box movements and any other kind of precise mechanisms.**

See **8031** for lower temperatures.

Light yellow and limpid aspect



Moebius 8031

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.8031-020	20	-25...+80	390	110	30	0.054
28.8031-250	250	-25...+80	390	110	30	0.620
28.8031-1L	1000	-25...+80	390	110	30	1.780

Classic oil for clocks, **music box movements and any other kind of precise mechanisms.**

Yellow and limpid aspect.



Moebius 8040

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.8040-020	20	-27...+80	570	145	34	0.055
28.8040-250	250	-27...+80	570	145	34	0.600
28.8040-1L	1000	-27...+80	570	145	34	1.550

Classic oil for **cuckoo-clocks** as well as from **small until tower clocks**, and any other kind of **precise mechanisms**.

Light yellow and limpid aspect.



Moebius 8141

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.8141-020	20	-4...+100	7000	1250	177	0.057
28.8141-250	250	-4...+100	7000	1250	177	0.610
28.8141-1L	1000	-4...+100	7000	1250	177	1.580

Classic oil with excellent stability and resistance qualities, used for mechanisms under high pressures. Suitable for **cup-bearings, centre wheels, barrel arbours, canon-pinions** and certain parts of **automatic winding mechanisms**.

Yellow aspect.

Synthetic oils for watchmaking and micromechanics.



Moebius Syntescap 941

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.941-002	2	-15...+70	340	103	26	0.011
28.941-005	5	-15...+70	340	103	26	0.022
28.941-010	10	-15...+70	340	103	26	0.034
28.941-050	50	-15...+70	340	103	26	0.207
28.941-1L	1000	-15...+70	340	103	26	0.905

Special synthetic oil for **pallets** lubrication. Suitable for any watch and clock calibres.

Limpid and yellowish aspect.



Moebius Quartz Oil 9000

Viscosity cSt

MSA	ml	Temp. ° C	20° C	Kg
28.9000-002	2	-36...+80	100	0.010

Universal synthetic lubricant for **quartz analogue watches**. Suitable for plastic like polyacetal (Delrin®), polyamides, polycarbonates. Very adherent and doesn't spread out in normal use conditions.



Moebius Synt-A-Lube 9010/9014

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9010-002	2	-29...+70	625	150	31	0.015
28.9010-005	5	-29...+70	625	150	31	0.026
28.9010-010	10	-29...+70	625	150	31	0.037
28.9010-050	50	-29...+70	625	150	31	0.206
28.9010-1L	1000	-29...+70	625	150	31	0.907
28.9014-002	2	-35...+70	390	98	24	0.011
28.9014-005	5	-35...+70	390	98	24	0.022
28.9014-010	10	-35...+70	390	98	24	0.033
28.9014-050	50	-35...+70	390	98	24	0.206
28.9014-1L	1000	-35...+70	390	98	24	0.905

Synthetic oil for the adjustable parts and stones on small and medium calibres and any other kind of precise mechanisms. The **9014** is a mix of 70% of the **9010** and 30% of the **9030**. Its intermediate viscosity increases its cold resistance.

Limpid and yellowish aspect.

Moebius Synt-A-Lube 9010 fluorescent Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9010-002F	2	-29...+70	625	150	31	0.015
28.9010-01F	10	-29...+70	625	150	31	0.037


Moebius Synt-A-Lube 9015
Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9015-002	2	-32...+70	625	150	31	0.011
28.9015-005	5	-32...+70	625	150	31	0.022
28.9015-010	10	-32...+70	625	150	31	0.034
28.9015-050	50	-32...+70	625	150	31	0.206
28.9015-1L	1000	-32...+70	625	150	31	0.905

Moebius Synt-Visco-Lube 9024
Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9024-002	2	-18...+80	1450	266	45	0.013
28.9024-005	5	-18...+80	1450	266	45	0.022
28.9024-010	10	-18...+80	1450	266	45	0.037
28.9024-050	50	-18...+80	1450	266	45	0.207
28.9024-1L	1000	-18...+80	1450	266	45	0.907

Moebius Synt-Visco-Lube 9026
Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9026-002	2	-18...+90	1450	266	45	0.013
28.9026-005	5	-18...+90	1450	266	45	0.022
28.9026-010	10	-18...+90	1450	266	45	0.030
28.9026-050	50	-18...+90	1450	266	45	0.208
28.9026-1L	1000	-18...+90	1450	266	45	0.932

Moebius Synt-Visco-Lube 9027
Viscosity cSt

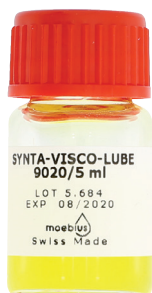
MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9027-002	2	-4...+80	7600	1040	130	0.013
28.9027-005	5	-4...+80	7600	1040	130	0.022
28.9027-010	10	-4...+80	7600	1040	130	0.029
28.9027-050	50	-4...+80	7600	1040	130	0.208
28.9027-1L	1000	-4...+80	7600	1040	130	0.935

Moebius Synt-Frigo-Lube 9034
Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9034-002	2	-41...+60	180	58	16	0.010
28.9034-005	5	-41...+60	180	58	16	0.020
28.9034-010	10	-41...+60	180	58	16	0.032
28.9034-050	50	-41...+60	180	58	16	0.205
28.9034-1L	1000	-41...+60	180	58	16	0.880

Synthetic oil to reduce combination metal/plastic friction in bearings, plastic/plastic sliding friction or in case of insufficient natural friction reduction of plastics or to improve this property. For high temperatures and pressures, use **9026** with additional disulfide molybdenum. The resistance of oil on plastics is dependent of its surface layer, therefore the need for an epilame has to be checked each time (particularly indicated for **9034** use).

Limpid and yellowish aspect.



Moebius Synt-Visco-Lube 9020

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9020-002	2	-18...+80	1450	266	45	0.015
28.9020-005	5	-18...+80	1450	266	45	0.022
28.9020-010	10	-18...+80	1450	266	45	0.037
28.9020-050	50	-18...+80	1450	266	45	0.207
28.9020-1L	1000	-18...+80	1450	266	45	0.926

Synthetic oil for bearing lubrication of small calibres used instead of **9010** if the pressure resistance is not sufficient. Also particularly used for big calibres with higher pressure resistance, for oscillating weights and any other mobile parts of automatic movements.

Light yellowish aspect.



Moebius Synt-Frigo-Lube 9030

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9030-002	2	-41...+60	180	60	16	0.015
28.9030-005	5	-41...+60	180	60	16	0.027
28.9030-010	10	-41...+60	180	60	16	0.037
28.9030-050	50	-41...+60	180	60	16	0.205
28.9030-1L	1000	-41...+60	180	60	16	0.882

Synthetic oil used in low temperature conditions of small mechanisms like watches, Meteorological, cars, aircrafts and boats instruments. It is recommended to do an epilame-coating of the movements.

Light yellowish aspect.



Moebius Arctic 9040

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9040-002	2	-52...+120	65	24	9	0.015
28.9040-005	5	-52...+120	65	24	9	0.024
28.9040-010	10	-52...+120	65	24	9	0.044
28.9040-050	50	-52...+120	65	24	9	0.207
28.9040-1L	1000	-52...+120	65	24	9	0.919

Synthetic oil used for watches and precision instruments on boats, air crafts... working in low temperature conditions. It is also suitable for higher temperatures. Due to low viscosity, this oil tends of spreading at normal temperature and it is recommended to do an epilame-coating.

Limpid and yellow aspect.



Moebius Synt-HP 500 (9101)

Moebius Synt-HP 750 (9102)

Moebius Synt-HP 1000 (9103)

Moebius Synt-HP 1300 (9104)

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9101-002	2	-35...+100	2300	511	33	0.017
28.9101-020	20	-35...+100	2300	511	33	0.070
28.9101-050	50	-35...+100	2300	511	33	0.100
28.9102-002	2	-35...+100	3300	731	44	0.017
28.9102-020	20	-35...+100	3300	731	44	0.070
28.9102-050	50	-35...+100	3300	731	44	0.100
28.9103-002	2	-35...+100	4700	1013	56	0.017
28.9103-005	5	-35...+100	4700	1013	56	0.025
28.9103-020	20	-35...+100	4700	1013	56	0.070
28.9103-050	50	-35...+100	4700	1013	56	0.100
28.9104-002	2	-35...+100	5900	1267	68	0.017
28.9104-020	20	-35...+100	5900	1267	68	0.070
28.9104-050	50	-35...+100	5900	1267	68	0.100

Coloring free versions

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9101-055	5	-35...+100	2300	511	33	0.025
28.9102-055	5	-35...+100	3300	731	44	0.025
28.9103-055	5	-35...+100	4700	1013	56	0.025
28.9104-055	5	-35...+100	5900	1267	68	0.025
28.9104-205	20	-35...+100	5900	1267	68	0.070
28.9104-505	50	-35...+100	5900	1267	68	0.100

Moebius 9104 fluorescent

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.9104-20F	20	-35...+100	5900	1267	68	0.070
28.9104-50F	50	-35...+100	5900	1267	68	0.100

Synthetic oil for mechanical watches, train wheels, barrels, steel/steel friction, precision instruments, motors, small ball bearings, etc. The **SYNT-HP** is convenient for high pressure where stability is needed on precise mechanisms.

» **“Microgliss” oil made of classic and silicon oils, for watchmaking and precision micromechanics.**



Moebius Microgliss (Group D)		Viscosity cSt				
MSA	ml	Temp. ° C	0° C	20° C	50° C	Kg
28.D2-020	20	-30...+70	260	73	19	0.055
28.D2-050	50	-30...+70	260	73	19	0.110
28.D2-250	250	-30...+70	260	73	19	0.300
28.D2-1L	1000	-30...+70	260	73	19	0.872
28.D3-020	20	-22...+80	900	193	39	0.055
28.D3-050	50	-22...+80	900	193	39	0.112
28.D3-250	250	-22...+80	900	193	39	0.300
28.D3-1L	1000	-22...+80	900	193	39	0.885
28.D4-020	20	-15...+80	1900	370	68	0.055
28.D4-050	50	-15...+80	1900	370	68	0.112
28.D4-250	250	-15...+80	1900	370	68	0.300
28.D4-1L	1000	-15...+80	1900	370	68	0.887
28.D5-020	20	-15...+80	7300	1200	175	0.055
28.D5-050	50	-15...+80	7300	1200	175	0.113
28.D5-250	250	-15...+80	7300	1200	175	0.300
28.D5-1L	1000	-15...+80	7300	1200	175	0.899

The **D group** is made of 4 oils with identical base properties but different viscosity. Oil **D2** works well at low temperatures but a surface pre-treatment against spreading is needed (with Fixodrop). Oils **D3**, **D4** and **D5** are used in bearings exposed to high pressures according to safety margins. The complete range of Microgliss lubricants is composed of 6 groups and was specifically conceived for watchmaking and precision mechanics. Each group contains several products of different viscosities but with the same base.

Other groups **available on request** :

Moebius Microgliss (Group C)		Viscosity cSt	
MSA	ml	20° C	Kg
28.C7-020	20	350	0.054
28.C7-050	50	350	0.120
28.C7-1L	1000	350	1.625

Mineral based oil, with improved adherence and consistency thanks to a fatty grease.

Application : micromotors and lubrication problems in watchmaking (cup-bearings and centre wheels).

Moebius Microgliss (Group H)		Viscosity cSt	
MSA	ml	20° C	Kg
28.H10-020	20	13800	0.055
28.H10-050	50	13800	0.110
28.H10-250	250	13800	0.300
28.H10-1L	1000	13800	0.858

Dimethyl type silicon oil, rarely used as lubricant.

Application : used as bathing solutions or as water resistant agents due to their hydrophobic properties. This oil is used as water resistant product and anti-vibration agent.

Moebius Microgliss (Group I)		Viscosity cSt	
MSA	ml	20° C	Kg
28.I4-250	250	1000	0.558
28.I4-1L	1000	1000	1.920
28.I31-250	250	510	0.558
28.I31-1L	1000	510	1.920

Silicon oil.

Application : like **H10**, but of a definitely higher quality with a better consistency and adherence.

Moebius Microgliss (Group K)		Viscosity cSt	
MSA	ml	20° C	Kg
28.K6-250	250	450	0.558
28.K6-1L	1000	450	1.630
28.K7-1L	1000	130	1.630

Anticorrosive oil of good consistency to normal use and preserving their good anti-corrosive properties even in contact with sea water.

Application : specially made for soaking.

Moebius Microgliss (Group L)		Viscosity cSt	
MSA	ml	20° C	Kg
28.L5-250	250	1200	0.468
28.L5-1L	1000	1200	1.630

Oil corresponding to those in group **D** with anti-corrosive and film forming additives for use in soaking.

Application : all mechanisms subjected to high loads and exposed to unfavourable climatic conditions.

» Classic greases for watchmaking and micromechanics.



Moebius 8200

Viscosity cSt

MSA	ml	20° C	50° C	80° C	Kg
28.8200-020	20	Solid	30	11	0.060
28.8200-050	50	Solid	30	11	0.130
28.8200-250	250	Solid	30	11	0.530
28.8200-1L	1000	Solid	30	11	1.410

Moebius 8200 **fluorescent**

Viscosity cSt

MSA	ml	20° C	50° C	80° C	Kg
28.8200-1FL	1000	Solif	30	11	1.410

Classical grease for ball bearing and any other low moving at large surface lubrication. Normal consistence at 20°C. The **lowest use temperature** is between -10° C and -40° C. The **highest use temperature** is +80° C, however, it turns in oil from +40° C and up.

Yellow aspect.



Moebius 8201

Viscosity cSt

MSA	ml	20° C	50° C	80° C	Kg
28.8201-020	20	20	Solid	0.070	0.070
28.8201-050	50	20	Solid	0.150	0.150
28.8201-250	250	20	Solid	0.600	0.600

Special classic lubricant with disulfide molybdenum.

Application : as the **8200** but is generally used at room temperature. In case of overheating, take into account that the MoS2 drops, which needs a frequent mixing. Normal consistency at 20° C.

Limit temperatures like 8200.

Black aspect.



Moebius 8207

Viscosity cSt

MSA	ml	20° C	50° C	80° C	Kg
28.8207-020	20	Solid	19	12	0.060
28.8207-050	50	Solid	19	12	0.140
28.8207-250	250	Solid	19	12	0.550
28.8207-1L	1000	Solid	19	12	1.600

Graphite special classic lubricant.

Application : as the **8201** but does not drop due to incorporated graphite. Normal consistency at 20° C.

Limit temperatures like 8200.

Black aspect.



Moebius Glissalube 8212/8213/8217

MSA	ml	Type	Kg
28.8212-020	20	Glissalube B	0.080
28.8212-050	50	Glissalube B	0.160
28.8213-020	20	Glissalube A	0.080
28.8217-020	20	Glissalube 20	0.080

Moebius Glissalube 8212 colouring free

MSA	ml	Type	Kg
28.8212-50S	50	Glissalube B	0.160

8212 : classic grease for aluminium barrel drums.
Weak breaking.

8213 : classic grease for brass barrel drums.
Good breaking.

8217 : classic grease for barrel drums.
Normal breaking.



Moebius 8300/8301/8302

Viscosity cSt

MSA	ml	0° C	20° C	50° C	Kg
28.8300-020	20	12	9	6	0.045
28.8300-050	50	12	9	6	0.130
28.8300-250	250	12	9	6	0.530
28.8300-1L	1000	12	9	6	1.410
28.8301-020	20	10	9	6	0.045
28.8302-020	20	19	14	9	0.051
28.8302-050	50	19	14	9	0.140
28.8302-250	250	19	14	9	0.580

Moebius 8300 fluorescent

Viscosity cSt

MSA	ml	0° C	20° C	50° C	Kg
28.8300-020F	20	12	9	6	0.045

Classic grease for winding mechanisms.

Application : watch winding systems, alarm clocks and clocks. Also suitable for clock bearing springs and slow mobile parts with large frictional surface. In hot countries it replaces advantageously the **8200**. Yellowish aspect. Normal consistency at 20° C. **Lowest temperature limit** between -10° C and -40° C. The **highest temperature** of use reaches 80° C but at 50° C it reacts as oil.

The **8301** (black aspect) contains additional graphite and is suitable for sliding clamps.

The **8302** (grey-black aspect) contains an additional disulfide molybdenum and is also suitable for sliding clamps.

» Waterproof silicon greases.



Moebius 8513/8516

MSA	ml	Temp. ° C	Consistance à 20° C	Kg
28.8513-010	10	-60...150	Solid	0.015
28.8513-050	50	-60...150	Solid	0.070
28.8513-100	100	-60...150	Solid	0.145
28.8513-200	200	-60...150	Solid	0.320
28.8513-1L	1000	-60...150	Solid	1.450
28.8516-10	10	-60...120	Soft	0.015
28.8516-50	50	-60...120	Soft	0.072
28.8516-200	200	-60...120	Soft	0.550

Waterproof silicon grease specially made for repairing and control of waterproof watches.

» Synthetic greases for watchmaking and micromechanics.



Moebius 9415

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	80° C	Kg
28.9415-002	2	-20...+80	410	107	10	0.016
28.9415-010	10	-20...+80	410	107	10	0.038
28.9415-100	100	-20...+80	410	107	10	0.370

Moebius 9415 fluorescent

Viscosity cSt

MSA	ml	Temp. ° C	0° C	20° C	80° C	Kg
28.9415-01F	10	-20...+80	410	107	10	0.016

Synthetic grease for different applications. In mechanical watches, it is used as lubricant for the escapement. For micromechanics, it is used in the following areas : miniature ball bearings, step by step motors, high frequencies, synchronies, etc.

Yellowish aspect.



Moebius 9501

Viscosity cSt

MSA	ml	Freezing ° C	0° C	20° C	80° C	Kg
28.9501-010	10	-38°	176	68	12	0.021
28.9501-050	50	-38°	176	68	12	0.064

Moebius 9501 fluorescent

Viscosity cSt

MSA	ml	Freezing ° C	0° C	20° C	80° C	Kg
28.9501-01F	10	-38°	176	68	12	0.021
28.9501-05F	50	-38°	176	68	12	0.064

Moebius 9501 red

Viscosity cSt

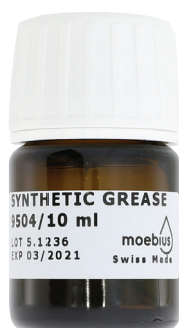
MSA	ml	Freezing ° C	0° C	20° C	80° C	Kg
28.9501-R-010	10	-38°	176	68	12	0.021

Synthetic soft grease, developed to solve friction problems like time setting, winding and calendar mechanisms and revolving bezels of diving watches.

Packaging available :

Syringe MSA 28.9501-010, 28.9501-01F and 28.9501-R-010.

Bottle MSA 28.9501-050 and 28.9501-05F.



Moebius 9504

Viscosity cSt

MSA	ml	Temp. ° C	20° C	40° C	100° C	Kg
28.9504-10	10	-20...+100	305	103	13.4	0.057
28.9504-50	50	-20...+100	305	103	13.4	0.125

Moebius 9504 fluorescent

Viscosity cSt

MSA	ml	Temp. ° C	20° C	40° C	100° C	Kg
28.9504-10F	10	-20...+100	305	103	13.4	0.057

Moebius 9504 colouring free

Viscosity cSt

MSA	ml	Temp. ° C	20° C	40° C	100° C	Kg
28.9504-10S	10	-20...+100	305	103	13.4	0.057
28.9504-50S	50	-20...+100	305	103	13.4	0.125

Synthetic grease, gives very stable friction with high lubricant capacity. It is composed of the basic **9501** grease and a metallic soap to obtain an increased consistence and adhesion. A neutral additive gives an excellent high-pressure resistance and a good attrition. The **9504** grease is suitable for any metal/metal friction of medium and high pressures.

Application : winding, calendar, chronograph and time setting mechanisms.

Summary table of oiling (Moebius®)

Application	5 to 8 3/4'''	9 3/4 to 12'''	13 to 18'''	Chronometers	Roskopf watches, with pallets, with pins	Alarm clocks	Pendulum and regulators	Clocks	Quartz
Pallets stones, pins	8000 941	8000 941	8000 941	8000 941	8000 941	8030 9020	8030 9020	8030 9020	-
Escape wheels	8000 9010	8000 9010	8000 9010	8000 9010	8000 9010	8030 9020	8030 9020	8030 9020	-
Balance staff	8000 9010	8000 9010	8000 9010	8000 9010	8000 9010	8030 9020	8030 9020	8030 9020	-
Great wheels	8000 9020	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-3/D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	-
Finishing	8000 9010	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-3/D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	-
Barrel arbours	8000 9020 SYNT-HP*	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-3/D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	8141 SYNT-HP* D-5	-
Springs and sliding clamps	8030	-	-	-	-	-	-	-	-
Automatic winding mechanism	9010/20 SYNT-HP* D-5	9010/20 SYNT-HP* D-5	9010/20 SYNT-HP* D-5	-	-	-	-	-	-
Winding and calendar mechanism	8030	SYNT-HP* D-5	SYNT-HP* D-5	-	-	-	-	-	-
Rotor bearing	-	-	-	-	-	-	-	-	9000 9024
Intermediate wheel	-	-	-	-	-	-	-	-	9000 9027
Wheel gear	-	-	-	-	-	-	-	-	9000 9024

Red : classic oil

*The choice of viscosity depends on force reserves.

Blue + black = optimal recommendation of oiling.

Blue : synthetic oil

Black : Microgliss oil

Summary table of greasing (Moebius®)

Application	5 to 8 3/4'''	9 3/4 to 12'''	13 to 18'''	Chronometers	Roskopf watches, with pallets, with pins	Alarm clocks	Pendulum and regulators	Clocks	Quartz
Pallets stones, pins	9415	9415	9415	9415	9415	-	-	-	-
Springs and sliding clamps	-	8200	8200	8200	8200	8200 8021	8200	8200	-
Barrel wall	8212 Alu 8213 Brass 8217	8212 Alu 8213 Brass 8217	8212 Alu 8213 Brass 8217	-	8212 Alu 8213 Brass 8217	-	-	-	-
Winding and calendar mechanism	8200 8300	8300	8300	8200 8300	8200 8300	8200 8300	8200 8300	8200 8300	8200 8300
Friction, time setting	9501	9501 9504	9501 9504	9501 9504	9501	-	-	-	9501
O-Ring gaskets	8513	8513	8513	8513	-	-	-	-	-

Red : classic grease

Blue : synthetic grease

Black : silicone grease

>> Epilame oils for watchmaking and precision micromechanics.



Epilame is a surface treatment intended to decrease the superficial tension preventing the spreading out of the liquid lubricants. Fixodrop allows to practically eliminate all the not controlled cases of spreading out and is used on following applications : cameras, obturators, objectives, counters and measuring instruments, electric counters, air-crafts and cars instruments, meteorological and medical instruments, relays, security switches, miniature ball-bearings, movements, mechanical watches and quartz movements of all types and sizes.

There are 3 versions, here below the main features :

Fixodrop FK type BS : specially conceived for the treatment of rubies, steel, brass and other materials. It is diluted with solvent MSA28.5700-1L.

Fixodrop FK type K : specially conceived for the treatment of plastic, plastics fibre-reinforced and Delrin®.

Fixodrop W : as ES but it is diluted with mineralised water.

Moebius Fixodrop

MSA	ml	Type	Boiling point ° C	Kg	Description
28.8980-100	100	ES/BS	56	0.295	Concentrated solution, non-flammable and non-toxic up to 200 °C
28.8980-1L	1000			1.680	
28.8981-100	100	ES/BS-10	56	0.295	Ready for use solution, non-flammable and non-toxic up to 200 °C
28.8981-250	250			0.500	
28.8981-1L	1000			1.680	
28.8982-1L*	1000	ES/BS-20	56	1.680	Ready for use solution, non-flammable and non-toxic up to 200° C
28.8991-100	100	ES/K-10	56	0.295	Ready for use solution, non-flammable and non-toxic up to 200 °C
28.8991-250	250			0.500	
28.8991-1L	1000			1.680	
28.8970-1L	1000	W	100	1.680	Concentrated solution, non-flammable and non-toxic up to 180 °C
28.8971-1L	1000	W	100	1.680	Ready for use solution, non-flammable and non-toxic up to 180 °C

* Recommended only for production

Moebius solvent for Fixodrop ES

MSA	ml	Kg	Description
28.5700-1L	1000	1.620	Solvent for dilution of concentrated solution Fixodrop 8980. Dilution : 10% of concentrate solution / 90% of solvent.



Epilame NGL EpiDrop3® SWISS MADE.

Main features :

- Respect for the environment: ozone layer, global warming potential (GWP), time in the atmosphere and regeneration
- Compatible with watch materials as steel 20ap/H1, ruby, brass and durnico.

Technical and environmental data:

Active ingredient :	Fluoropolymer
Diluent :	Hydrofluoroether
Density :	1,43 g/cm3
Flash point :	Non flammable
Toxicity :	Very low
VOC :	0 %
Do not deplete the ozone layer :	0 (ODP)
Life-time in the atmosphere :	Less than 8 months
Drying time :	A few seconds
Surface tension :	About 20 mN/m
Stability of the polymer :	Up to 200° C

NGL EpiDrop3

MSA	ml	Boiling point ° C	Description
28.400-100	100	76	Ready for use solution
28.400-1L	1000	76	Ready for use solution
28.401-100	100	76	Concentrated solution (1/10). To be diluted with MSA28.402-1L only

NGL EpiDrop3 solvent

MSA	ml	Description
28.402-1L	1000	Solvent for dilution of concentrated solution EpiDrop3 MSA28.401-100. Dilution : 10% of concentrate solution / 90% of solvent

 See page 17 27.
Bottles for epilames.



MSA17.316



MSA17.317

» **NOVOSTAR® oils and greases at high lubricant power, long conservation and cold resistant.**



MSA	ml	Viscosity cSt 20° C	Kg
28.B.0006	6	89	0.011

NOVOSTAR® oil **B type** for gear train and escapement in watches.



MSA	ml	Viscosity cSt 20° C	Kg
28.H.0030	30	110	0.076

NOVOSTAR® oil **H type** for gear train of wall clocks.



MSA	ml	Viscosity cSt 20° C	Kg
28.L.0005	6	82	0.014

NOVOSTAR® oil **L type** for watch palettes.



MSA	ml	Viscosity cSt 20° C	Kg
28.M.0010	10	95	0.039

NOVOSTAR® oil **M type** for gear train and escapement pivots for pocket watches.



MSA	ml	Viscosity cSt 20° C	Kg
28.R.0020	20	110	0.057

NOVOSTAR® oil **R type** for gear train of clocks.



MSA	ml	Kg
28.LUB.0030	30	0.079

NOVOSTAR® grease for watch barrels.

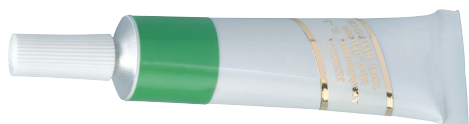
>> LA JURASSIENNE® oil.



MSA	ml	Dimensions mm	Kg
28.J.0100	100	Ø 45 x 105	0.154

LA JURASSIENNE® mineral oil for wall clocks.

- Severely refined and compatible with strong oxidants
- Temperature of auto-inflammation at 200° C
- Stable product in usual stocking temperatures, manipulation and use.



MSA	Couleur	Packaging	Size mm	Kg
28.200	● Blue	Tube of 7 g	85 x 20 x 15	0.009
28.205	● Green	Tube of 7 g	85 x 20 x 15	0.009
28.201	● Blue	Tube of 18 g	115 x 30 x 20	0.020
28.206	● Green	Tube of 18 g	115 x 30 x 20	0.020

JISMAA® synthetic lubricant entirely mineral, specially recommended for precision instruments, measuring instruments, counters, quartz movements, optical instruments, etc. Its deterioration, spreading and evaporation are nil. This lubricant can accept extreme temperature variations (-50° C to +100° C), big centrifugal force (30,000 rpm) and strong friction. No oxidation.

Recommended use :

- **BLUE** for steel/steel (alloys frictions, iron alloy carbon/Mo/steel/Cr)
- **GREEN** for steel/brass (alloys frictions, iron alloy copper Cu/Be/Ni).

Recommended use with JISMAA® oilers illustrated on page 17 4 (MSA17.050...17.052 and MSA17.060...17.063).



MSA	Packaging	Kg
28.651	Pot of 12 g, Ø 34 x 32 mm	0.017

KT-22® lubricant for multiple uses. For greasing gear trains on watches and various instruments, waterproofing crowns, pushers and case backs gaskets.



MSA	Packaging	Kg
28.653	Syringe of 6 g, Ø 15 x 155 mm	0.013

KT-22® lubricant for multiple uses. For greasing gear trains on watches and various instruments, waterproofing crowns, pushers and case backs gaskets.



MSA	Colour	Packaging	Kg
28.303	White	Tube of 100 g, Ø 35.5 x 170 mm	0.110

MOLYKOTE® 111 waterproofing paste based on silicone grease.

Advantages :

- Excellent water resistance, even see water
- Good resistance to most chemical products
- Low volatility
- The purpose is to avoid crowns and tubes gaskets sticking to metal.

Temperatures use range : from -40°C up to +200°C.



MSA	Colour	Packaging	Kg
28.300	White	Tube of 50 g, Ø 35 x 130 mm	0.077

MOLYKOTE® DX white consistent paste made of lithium grease.

Advantages :

- Very high load capacity
- Reduces friction and wearing
- Very good resistance to the washing out
- Protection against cold temperature soldering
- Good protection against oxidation and excellent protection against contact corrosion. It reduces incidents of grinding and seizing.

Temperature use range : from -25°C to +125°C.



MSA	Colour	Packaging	Kg
28.UT18-020 (1)	White	Pot of 20 g, Ø 34 x 40.5 mm	0.025
28.UT18-100 (2)	White	Tube of 100 g, Ø 30 x 145 mm	0.115

FOMBLIN® UT18 grease.

Advantages :

- Excellent lubricant for multiple uses
- Compatible with all sorts of material like plastic, metals, glass, etc.
- It resists to oxidation and other chemical products
- Very stable in different temperatures
- Used in watchmaking for greasing gaskets.

Temperature use range : from -30° C to +250° C.



MSA	Type	Packaging
28.301	302	Tube of 250 g

BLASOLUBE® 302 universal lubricant grease for a very wide-ranging use.

Soft/half-hard consistency.

Temperatures use range : from -20° C up to +150/200° C.

MSA	Type	Packaging
28.307	301	Tube of 400 g

BLASOLUBE® 301 universal lubricant grease for a very wide-ranging use.

Soft consistency.

Temperatures use range : from -30° C up to +120/150° C.



MSA	Packaging	Kg
28.102	Pot of 5 g, Ø 22.5 x 31 mm	0.008

CHRONOGREASE KLUBER P125® grease.

- Recommended by ETA SA for greasing mainsprings (calibres 7750, A07111, etc.).



MSA	Packaging	Kg
28.652	Tube of 10 g, Ø 12 x 56 mm	0.012

SILCON-7® waterproofing grease.

- For watch cases
- It stops gaskets from drying and encrusting in the thread.



MSA	Size mm	Kg
28.101	Ø 50 x 16	0.017

SEIKO® S-916 silicon grease.

- Box containing 2 foam pads saturated with grease
- Easy and clean lubricating of O-Ring gaskets, without contact with the fingers.



MSA	Contents g	Size mm	Kg
28.104	4	Ø 35 x 18	0.014

SEIKO® TSF-451 silicon grease.

- Mainly used in the repair and control of waterproof watches
- Excellent lubricant with water-displacing property
- For the lubrication of crown gaskets, case backs and bezels.



MSA	Contents g	Size mm	Kg
28.105	10	Ø 36 x 18	0.016

SEIKO® S-6 grease.

- For automatic winding mechanism : eccentric posts, click levers and bearings.



MSA	Packaging	Kg
28.654	Syringe of 6 cc, Ø 15 x 155 mm	0.015

Rust remover liquid for loosening rusted screws.

» **SUPER LUBE® multi-use Syncolon® lubricant.**

Main features :

- The product is 100% synthetic and biodegradable / No petroleum and no silicon component
- Non corrosive and non oxidable / Better lubrication thanks to PTFE suspension particles
- Totally neutral on plastic, paints, clothes, rubber or wood / It doesn't stain
- 100% hot, cold and salt water resistant / It doesn't evaporate / Without odour
- Dielectric and prevent seizure / It doesn't dry / Efficient between -40° C and +232° C.



MSA	Packaging	Kg
28.SL007	Pen 7 g, Ø 15 x 120 mm In blister	0.022



MSA	Packaging	Kg
28.SL012	Tube of 12 g, Ø 25 x 110 mm In blister	0.025



MSA	Packaging	Kg
28.SL085	Tube of 85 g, Ø 55 x 145 mm In blister	0.110



MSA	Packaging	Kg
28.SL300	Spray 300 ml Ø 65 x 200 mm	0.380