

» 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 to +80	280	95	29	0.019
28.8000-008	8	"	"	"	"	0.022
28.8000-250	250	"	"	"	"	0.620

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



Moebius 8040/8043		Viscosity cSt				
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.8040-020	20	-27 to +80	570	145	34	0.055
28.8040-250	250	"	"	"	"	0.600
28.8040-1L	1000	"	"	"	"	1.550
28.8043-020	20	-27 to +80	780	170	40	0.054
28.8043-250	250	"	"	"	"	0.620
28.8043-1L	1000	"	"	"	"	1.780

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. The **8043** contains additional stabilised micro fine disulfide molybdenum which doesn't deposit traces and gives it a black aspect. This oil can be used in case of insufficient pressure resistance of oil **8040**.



Moebius 8030/8034		Viscosity cSt				
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.8030-020	20	-18 to +80	440	115	31	0.055
28.8030-250	250	"	"	"	"	0.620
28.8030-1L	1000	"	"	"	"	1.600

Classic oil for clocks, **music box movements and any other kind of precise mechanisms**. Light yellow and limpid aspect. See **8031** for lower temperatures.



Moebius 8141		Viscosity cSt				
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.8141-020	20	-4 to +100	7000	1250	177	0.057
28.8141-250	250	"	"	"	"	0.610
28.8141-1L	1000	"	"	"	"	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**. Limpid and yellow aspect.



Moebius 8031/8050		Viscosity cSt				
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.8031-020	20	-25 to +80	390	110	30	0.054
28.8031-250	250	"	"	"	"	0.620
28.8031-1L	1000	"	"	"	"	1.780

Classic oil for clocks, **music box movements and any other kind of precise mechanisms**. Yellow and limpid 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 to +70	340	103	26	0.011
28.941-005	5	"	"	"	"	0.022
28.941-010	10	"	"	"	"	0.034
28.941-050	50	"	"	"	"	0.207

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



Moebius Quartz Oil 9000			Viscosity cSt	
MSA	ml	Temp. °C	20°C	Kg
28.9000-002	2	-36 to +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 to +70	625	150	31	0.015
28.9010-005	5	"	"	"	"	0.026
28.9010-010	10	"	"	"	"	0.037
28.9010-01F**	10	"	"	"	"	0.037
28.9010-050	50	"	"	"	"	0.206
28.9010-1L	1000	"	"	"	"	0.907
28.9014-002	2	-35 to +70	390	98	24	0.011
28.9014-005	5	"	"	"	"	0.022
28.9014-010	10	"	"	"	"	0.033
28.9014-050	50	"	"	"	"	0.206
28.9014-1L	1000	"	"	"	"	0.905

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

**MSA 28.9010-01F is the FLUO version of the MSA 28.9010-010.



Moebius Synt-A-Lube 9015			Viscosity cSt			
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.9015-002	2	-32 to +70	625	150	31	0.011
28.9015-005	5	"	"	"	"	0.022
28.9015-010	10	"	"	"	"	0.034
28.9015-050	50	"	"	"	"	0.206
28.9015-1L	1000	"	"	"	"	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 to +80	1450	266	45	0.013
28.9024-005	5	"	"	"	"	0.022
28.9024-010	10	"	"	"	"	0.037
28.9024-050	50	"	"	"	"	0.207
28.9024-1L	1000	"	"	"	"	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 to +90	1450	266	45	0.013
28.9026-005	5	"	"	"	"	0.022
28.9026-010	10	"	"	"	"	0.030
28.9026-050	50	"	"	"	"	0.208
28.9026-1L	1000	"	"	"	"	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 to +80	7600	1040	130	0.013
28.9027-005	5	"	"	"	"	0.022
28.9027-010	10	"	"	"	"	0.029
28.9027-050	50	"	"	"	"	0.208
28.9027-1L	1000	"	"	"	"	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 to +60	180	58	16	0.010
28.9034-005	5	"	"	"	"	0.020
28.9034-010	10	"	"	"	"	0.032
28.9034-050	50	"	"	"	"	0.205
28.9034-1L	1000	"	"	"	"	0.880

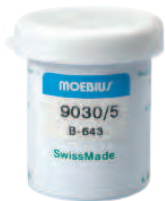
Synthetic oil to reduce combination metal/plastic friction in bearings, plastic/plastic sliding friction or in case of insufficient natural friction reduction of plastics or to improve this property. Light yellowish aspect. For high temperatures and pressures, use **9026** with additional disulfide molybdenum. 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).

» Synthetic oils for watchmaking and micromechanics.



Moebius Synt-Visco-Lube 9020			Viscosity cSt			
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.9020-002	2	-18 to +80	1450	266	45	0.015
28.9020-005	5	"	"	"	"	0.022
28.9020-010	10	"	"	"	"	0.037
28.9020-050	50	"	"	"	"	0.207
28.9020-1L	1000	"	"	"	"	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 to +60	180	60	16	0.015
28.9030-005	5	"	"	"	"	0.027
28.9030-010	10	"	"	"	"	0.037
28.9030-050	50	"	"	"	"	0.205
28.9030-1L	1000	"	"	"	"	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 to +120	65	24	9	0.015
28.9040-005	5	"	"	"	"	0.024
28.9040-010	10	"	"	"	"	0.044
28.9040-050	50	"	"	"	"	0.207
28.9040-1L	1000	"	"	"	"	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)			Viscosity cSt			
Moebius Synt-HP 750 (9102)			Viscosity cSt			
Moebius Synt-HP 1000 (9103)			Viscosity cSt			
Moebius Synt-HP 1300 (9104)			Viscosity cSt			
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.9101-020	20	-35 to +100	2300	511	33	0.070
28.9101-050	50	"	"	"	"	0.100
28.9102-020	20	-35 to +100	3300	731	44	0.070
28.9102-050	50	"	"	"	"	0.100
28.9103-020	20	-35 to +100	4700	1013	56	0.070
28.9103-050	50	"	"	"	"	0.100
28.9104-002	2	-35 to +100	5900	1267	68	0.017
28.9104-020	20	-35 to +100	5900	1267	68	0.070
28.9104-050	50	"	"	"	"	0.100
Version sans colorant			Viscosity cSt			
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.9101-055	5	-35 to +100	2300	511	33	0.025
28.9102-055	5	-35 to +100	3300	731	44	"
28.9103-055	5	-35 to +100	4700	1013	56	"
28.9104-055	5	-35 to +100	5900	1267	68	"
28.9104-205	20	"	"	"	"	0.070
28.9104-505	50	"	"	"	"	0.100
MSA 28.9104 version rouge fluorescente			Viscosity cSt			
MSA	ml	Temp. °C	0°C	20°C	50°C	Kg
28.9104-20F	20	-35 to +100	5900	1267	68	0.070
28.9104-50F	50	"	"	"	"	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 and stability is needed on precise mechanisms.

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



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

The D group is made of 5 oils with identical base properties but different viscosity. Oils D1 and D2 work 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 12 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 :

- **C group** with 9 oils made of minerals, with improved adherence and consistency thanks to a fatty grease (C1 to C9). Viscosity from 34 to 1250 cSt at 20 °C. Available in 20 and 50 ml. Application : micromotors and lubrication problems in watchmaking (cup-bearings and centre wheels) with oils C8 and C9.
- **H group** with 14 silicon oils type dimethyl, rarely used as lubricants (H1 to H14). Viscosity from 37 to 120,000 cSt at 20 °C. Available in 20 and 50 ml. Application : used as bathing solutions or as water resistant agents due to their hydrophobic properties. Oils H9 to H13 are used as water resistant products and anti-vibration agents.
- **I group** with 3 silicon oils (I3, I4 and I31). Viscosity from 370 to 1280 cSt at 20 °C. Available in 250 and 1000 ml. Application : like H group, but of a definitely higher quality with a better consistency and adherence.
- **K group** with 6 anticorrosive oils of good consistency to normal use and preserving their good anti-corrosive properties even in contact with sea water (K1 to K6). Viscosity from 33 to 1750 cSt at 20 °C. Available in 250 and 1000 ml. Application : specially made for soaking.
- **L group** with 5 oils corresponding to those in group D with anti-corrosive and film forming additives for use in soaking (L1 to L5). Viscosity from 39 to 1200 cSt at 20 °C. Available in 250 and 1000 ml. 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	"	"	"	0.130
28.8200-250	250	"	"	"	0.530
28.8200-1L	1000	"	"	"	1.410

Moebius 8200 fluorescent		Viscosity cSt			
MSA	ml	20°C	50°C	80°C	Kg
28.8200-1FL	1000	Solid	30	11	1.410

Classical grease for ball bearing and any other low moving at large surface lubrication. Yellow aspect and 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.



Moebius 8201		Viscosity cSt		
MSA	ml	20°C	50°C	Kg
28.8201-020	20	20	Solid	0.070
28.8201-050	50	"	"	0.150
28.8201-250	250	"	"	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. Black aspect. Normal consistency at 20 °C. **Limit temperatures like 8200.**



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	"	"	"	0.140
28.8207-250	250	"	"	"	0.550

Graphite special classic lubricant. **Application** : as the 8201 but does not drop due to incorporated graphite. Black aspect. Normal consistency at 20 °C. **Limit temperatures like 8200.**



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 colour 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.

» **Waterproof silicon greases.**



Moebius 8513/8516

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

Waterproof silicon grease.

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



Moebius 8300/8301/8302

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

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.

» **Synthetic greases for watchmaking and micromechanics.**



Moebius 9415

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

Moebius 9415 fluorescent

MSA	ml	Temp. °C	Viscosity cSt			
			0°C	20°C	80°C	Kg
28.9415-01F	10	-20 to +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.

» Epilame oils for watchmaking and micromechanics.



Moebius 9501		Viscosity cSt				
MSA	ml	Freezing °C	0°	20°	80°	Kg
28.9501-010	10	-38°	176	68	12	0.021
28.9501-050	50	"	"	"	"	0.064

Moebius 9501 fluorescent		Viscosity cSt				
MSA	ml	Freezing °C	0°	20°	80°	Kg
28.9501-01F	10	-38°	176	68	12	0.021
28.9501-05F	50	"	"	"	"	0.064

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
 Bottle MSA 28.9501-050 + 28.9501-05F



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, aircrafts 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 : FK type BS, FK type K and W (below the principal characteristics) :

Fixodrop FK type BS : specially conceived for the treatment of rubies, steel, brass and other materials. Is diluted with fluorocarbon.

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

Fixodrop W : as FK but is diluted with mineralised water.



Moebius 9504		Viscosity cSt				
MSA	ml	Temp. °C	20°C	40°C	100°C	Kg
28.9504-10	10	-20 to +100	305	103	13.4	0.057
28.9504-50	50	"	"	"	"	0.125

Moebius 9504 fluorescent (10F) or colour free (50S)		Viscosity cSt				
MSA	ml	Temp. °C	20°C	40°C	100°C	Kg
28.9504-10F	10	-20 to +100	305	103	13.4	0.057
28.9504-50S	50	"	"	"	"	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 add five 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.

Moebius Fixodrop FK/W

MSA	ml	Type	Bolling °C	Kg	Comments
28.8940-100	100	FK/BS	56	0.295	Concentrated solution, non-flammable and non-toxic up to 200 °C
28.8940-1L	1000	"	"	1.680	"
28.8941-100	100	FK/BS-10	56	0.295	Ready for use solution, non-flammable and non-toxic up to 200 °C
28.8941-250	250	"	"	0.500	"
28.8941-1L	1000	"	"	1.680	"
28.8942-1L*	1000	FK/BS-20	"	"	"
28.8951-100	100	FK/K-10	56	0.295	Ready for use solution, non-flammable and non-toxic up to 200 °C
28.8951-250	250	"	"	0.500	"
28.8951-1L	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-10	"	"	Ready for use solution, non-flammable and non-toxic up to 180 °C
28.8972-1L*	1000	W-20	"	"	"

* Recommended only for production

Moebius solvent for Fixodrop FK

MSA	ml	Kg	Comments
28.FLU56-1L	1000	1.620	Solvent for Fixodrop 8940 dilution . Dilution : concentrated solution : 10% and Fluorcarbure 56 : 90%.

Summary table of oiling and greasing (Mæbius®)

Application	5 to 8 3/4'''	9 3/4 to 12'''	13 to 18'''	Chronometers	Roskopf watches	Alarm clocks	Pendulum and regulators	Clocks	Quartz Watches
Pallets stones, pins	9415 941 8000 9010	9415 941 8000 9010	9415 941 8000 9010	9415 941 8000 9010	9410 941 8000 9010	9410 941 8000 9010	9020 9020 8030 9020	9020 9020 8030 9020	-
Escape wheels	8000 9010	8000 9010	8000 9010	8000 9010	8000 9010	8030 9020	8030 9020	8030 9020	-
Balance staff	8000 9020	8000 SYNT-HP* D-5	8000 SYNT-HP* D-5	8000 SYNT-HP* D-5	8000 SYNT-HP* D/3-D/5	8030 SYNT-HP* D-5	8030 SYNT-HP* D-5	8030 SYNT-HP* D-5	-
Great wheels	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	-
Finishing	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	-
Barrel arbours	8000 SYNT-HP*	8141 D-5	8141 D-5	8141 D-5	8141 D/3-D/5	8141 D-5	8141 D-5	8141 D-5	-
Springs and sliding clamps	8030	8200	8200	8200	8200	8200	8200	8200	-
Barrel wall	8213 Laiton 8212 Alu 8217	8213 Laiton 8212 Alu 8217	8213 Laiton 8212 Alu 8217	-	8213 Laiton 8212 Alu 8217	-	-	-	-
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 8200 8300	8300 SYNT-HP* D-5	8300 SYNT-HP* D-5	8200	8200	8200	8200	8200	8200
Friction, time setting	9501	9501 9504	9501 9504	9501	9501	-	-	-	9501
O-ring	8513	8513	8513	8513	-	-	-	-	-
Rotor bearing	-	-	-	-	-	-	-	-	9000 9024 9000
Intermediate wheel	-	-	-	-	-	-	-	-	9027 9000
Wheel gear	-	-	-	-	-	-	-	-	9024

*The choice of viscosity depends on force reserves.

Blue + black = optimal recommendation of oiling.



MSA	Colour	Size mm	Kg
28.303	White	ø 35.5 x 170	0.110

MOLYKOTE® 111 (100 g) waterproofing paste based on silicone grease. Excellent water resistance, even sea water, good resistance to almost all 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	Size mm	Kg
28.101	ø 50 x 16	0.017

SEIKO® S-916 silicon grease box containing 2 foam pads saturated with grease. Place the O-Ring gasket between both pads and twist the lid.



MSA	Size mm	Kg
28.104	ø 35 x 18	0.014

SEIKO® TSF-451 silicon grease (4g) box. Excellent lubricant for waterproofing on crowns, case and glass gaskets.



MSA	Size mm	Kg
28.105	ø 36 x 18	0.016

SEIKO® S-6 grease (10g) for automatic winding mechanism (eccentric posts, click levers and bearings).



MSA	Size mm	Kg
28.102	ø 22.5 x 31	0.008

CHRONOGREASE KLÜBER P125® grease. Recommended by ETA SA for greasing mainsprings (calibres 7750, A07111, ...).

MSA	Colour	Packaging	Size mm	Kg
28.200	Blue	Tube of 7 g	85 x 20 x 15	0.009
28.201	"	Tube of 18 g	115 x 30 x 20	0.020
28.205	Green	Tube of 7 g	85 x 20 x 15	0.009
28.206	"	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** steel/brass (alloys frictions, iron alloy copper Cu/Be/Ni).

Recommended use with JISMAA® oilers illustrated on page 17 4 (MSA 17.050... 17.052 et MSA 17.060... 17.063).



MSA	Colour	Size mm	Kg
28.301	Amber	48 x 210	0.277

Universal lubricant grease. Excellent adhesion and waterproof capacities. Temperatures use range from -20°C up to +150°C.

MSA	Colour	Contents	Size mm	Kg
28.UT18-020 (1)	White	20 g	ø 34 x 40.5	0.025
28.UT18-100 (2)	White	100 g	ø 30 x 145	0.115

FOMBLIN® UT18 grease (100g). Excellent lubricant for multiple uses compatible with all sorts of material like plastic, metals, glass, etc... It resists to oxidation and other chemical products and is very stable in different temperatures. Used in watchmaking for greasing gaskets.

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



MSA	Contents	Size mm	Kg
28.651	12 g	ø 34 x 32	0.017

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

MSA	Colour	Size mm	Kg
28.300	White	ø 35 x 130	0.077

MOLYKOTE® DX white consistent paste (50g) 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 and oxidation, and excellent protection against contact corrosion. It holds charges well, reduces incidents of grinding and seizing and avoids contact rusting.

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



MSA	Contents	Size mm	Kg
28.653	6 g	ø 15 x 155	0.013

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



MSA	Contents	Size mm	Kg
28.652	10 g	ø 12 x 56	0.012

SILCON-7® waterproofing grease for watch cases. It stops gaskets from drying and encrusting in the thread.

» 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
28.B4-2.5	4 small bottles of 2.5	"	0.039

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



MSA	ml	Viscosity cSt 20°C	Kg
28.H.0030	30	110	0.076
28.H.0250	250	"	0.260
28.H.1000	1000	"	1.100

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



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

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



MSA	ml	Kg
28.LUB.0030	30	0.079

NOVOSTAR® grease for watch barrels.



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

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



MSA	ml	Viscosity cSt 20°C	Kg
28.R.0020	20	110	0.057
28.R.1000	1000	"	1.100

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

» LA JURASSIENNE® oil.



MSA	Size mm	Kg
28.J.0100	ø 45 x 105	0.154

LA JURASSIENNE mineral oil (100 ml) 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.

➤ **SUPER LUBE® multi-use Syncolon® lubricant. The product is 100% synthetic and biodegradable. Principal characteristics: 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 - 100% hot, cold and salt water resistant - doesn't stain - doesn't evaporate - without odour - dielectric and prevent seizure - doesn't dry. Efficient between -40 °C and +232 °C. Delivered in 4 different packaging.**



MSA	Packaging	Size mm	Kg
28.SL007	Pen 7 g	ø 15 x 120	0.022

SUPER LUBE® lubricant delivered under blister.



MSA	Packaging	Size mm	Kg
28.SL012	Tube 12 g	ø 25 x 110	0.025

SUPER LUBE® lubricant delivered under blister.



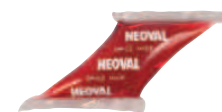
MSA	Packaging	Size mm	Kg
28.SL085	Tube 85 g	ø 55 x 145	0.110

SUPER LUBE® lubricant delivered under blister.



MSA	Packaging	Size mm	Kg
28.SL300	Aerosol 300 ml	ø 65 x 200	0.380

SUPER LUBE® lubricant.



MSA	Packaging	Size mm	Kg
28.210	Stylo 6 cc	ø 13 x 155	0.028

Lubrityl precision oil pen. Drop by drop lubricant dispenses thanks to the needle pump. Possibility to easily re-absorb the extra oil by briefly and rapidly pushing the needle.

Oil refills Rubin G-8 for MSA 28.210 :

MSA	Packaging	Size mm	Kg
28.210-A	Refill 6 cc	ø 30 x 35 x 10	0.005



MSA	Contents	Size mm	Kg
28.654	6 cc	ø 15 x 155	0.015

Rust remover liquid delivered in 6cc syringe for loosening rusted screws.