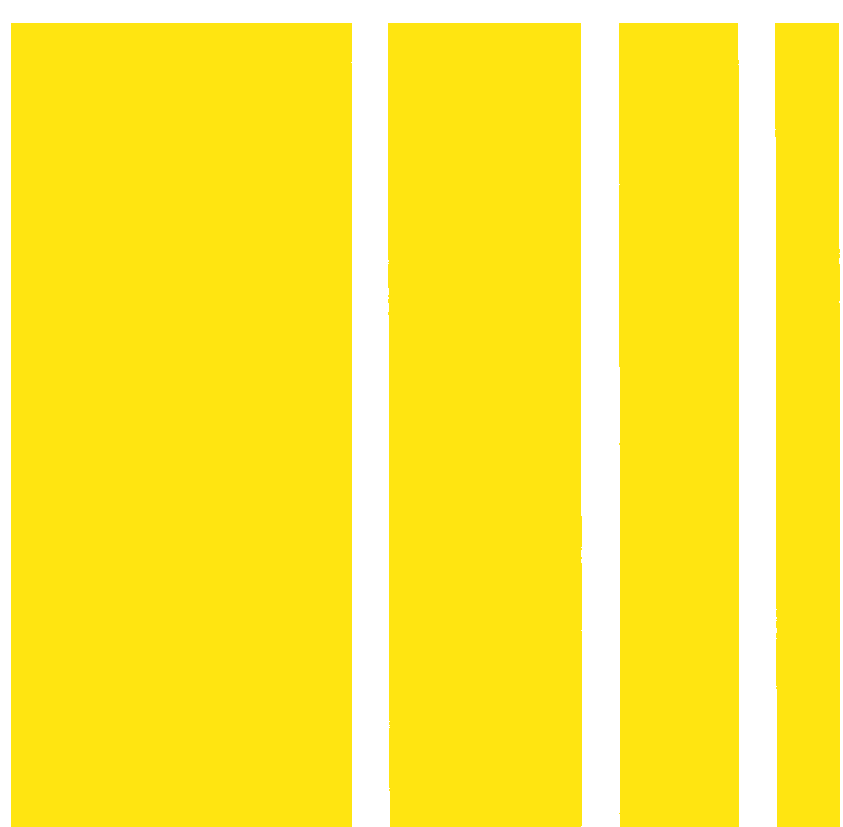




high-tech  
special lubricants

**MOLYguard**®



MOLYguard

## High-tech special lubricants

High-tech lubricants **MOLYGUARD®** are obtained in the research and development laboratories of the Compagnia Italiana Lubrificanti. S.p.A., using selected high-performance bases and new additives to overcome the most extreme operating conditions, succeeding where conventional lubricants fail.

**MOLYGUARD®** lubricants withstand high and low temperatures, heavy loads, shock or vibration, and the contamination from aggressive environments, allowing you to solve concrete problems of lubrication and maintenance of the most modern and sophisticated facilities.

The use of lubricants with high technological content of **MOLYGUARD®** line is the easiest way to improve the reliability and the performance of each motion and to reduce, at the same time, running costs and maintenance.

If an application requires the use of oils or greases with some of the following characteristics, **MOLYGUARD®** lubricants are a clearly winning

- Superior friction reduction and consequent energy saving.
- High resistance of lubricating film even under heavy loads.
  - Excellent wear protection with lengthening of the useful life of the moving parts.
- High resistance to vapours and aqueous acidic or alkaline solution.
- Stability at high temperatures and prolonged replacement intervals of lubricants.
- Reduced or totally eliminated carbonaceous residues building even in the severest working conditions, resulting in a drastic reduction of maintenance time and cost of moving parts.
- Optimal lubrication even at low temperatures.
- Resistance to aggressive gases and radiation.
- Availability of non-toxic formulations suitable for the food or pharmaceutical industry.

The great experience acquired by **Compagnia Italiana Lubrificanti S.p.A.** in over 50 years of activity in this sector, often in close cooperation with important manufacturers, together with the technical preparation of the **MOLYGUARD®** division, made it possible to produce lubricants that meet the needs of the most diversified application areas.

**MOLYGUARD®** lubricants are an invaluable tool to ensure operation of the plants, always in full efficiency, even in the most demanding operating conditions.

The values for the products listed in this catalogue are indicative and do not constitute specification.

*If within this Application Guide it is not possible to find the lubricant type more suitable to Your needs, you can consult the complete technical documentation of all MOLYguard products on the website [www.compagniaitalianalubrificanti.com](http://www.compagniaitalianalubrificanti.com) or contact our Technical Service or Commercial that will be happy to provide the support required.*

**TECHNICAL SERVICE**  
PHONE +39 02 34.553.301 - FAX +39 02 331.78.91  
[ufficiotecnico@compagniaitalianalubrificanti.it](mailto:ufficiotecnico@compagniaitalianalubrificanti.it)

**COMMERCIAL SERVICE**  
PHONE +39 02 34.553.1 - FAX +39 02 34.90.417  
[cil@compagniaitalianalubrificanti.it](mailto:cil@compagniaitalianalubrificanti.it)

**MOLYGUARD OILS AND FLUIDS**

Compressor synthetic oils _____	pag.	4
Protective fluids _____	pag.	5
Chain woven-wire oils and fluids _____	pag.	6
Textile sector fluids _____	pag.	7
Pharmaceutical food sector fluids _____	pag.	7
Bearing and gear lubrication fluids _____	pag.	9
General application fluids _____	pag.	10

**MOLYGUARD GREASE - PASTE - COMPOUND**

Solid additive antiseizure paste _____	pag.	12
Bearing greases _____	pag.	13
High temperatures greases _____	pag.	14
Low temperatures greases _____	pag.	14
Silicone greases _____	pag.	15
Grease for marine _____	pag.	15
Grease for gears - open gears and general purpose _____	pag.	15
Pharmaceutical-Food sector greases _____	pag.	16
Special applications greases _____	pag.	17
Grease cartridges _____	pag.	18

**MOLYGUARD SPRAY****INDUSTRIAL OILS VISCOSITY TABLE ISO VG****GREASE INDUSTRIAL CLASSIFICATION TABLE NLGI****COMPATIBILITY TABLE GREASE****MAIN FEATURES OF THICKENERS****PRODUCT INDEX**

## LUBRICATING OILS AND FLUIDS

Product	ISO VG	Registration Number NSF	Base oil	Indicative Range (1) (hours)	Pour Point (°C)	Flash Point Open Cup (°C)	Volumetric Mass at 15°C (Kg/dm3)	Viscosity Index	Characteristics and Fields of Application
<b>Compressor fluids</b>									
<b>MOLYKOMP FG</b>	32	147120	PAO	V: 6000	-51	225	0,835	141	Fully synthetic oil for rotary and reciprocating air compressor, adapted for vacuum pumps. ISO VG 46 and 100 <b>registered NSF</b> .
	46			PA: 3000	-48	230	0,840	140	
	68			PI: 3000	-46	232	0,845	139	
	100	147121	-43	233	0,850	137			
	150		-37	245	0,855	137			
<b>MOLYKOMP IR 46</b>	46		PAG	V: 8000	-50	>250	0,973	170	Fully synthetic oil with PAG base. Specially studied for Ingersoll Rand SSR screw compressor. The excellent performance allows to reach 8000 hr as working time. It is not possible to mix with all type of oil, either mineral or synthetic.
<b>MOLYKOMP PE</b>	32		PAO ESTER	V: 8000	-56	>250	0,875	110	Fully synthetic oil for rotary, reciprocating compressor and rotary vacuum pump. The life time is between 8000/24000 hr depending from the type and the application. It is possible to mix with all type of oil either mineral and synthetic but not with the PAG oil.
	46			PA: 5000	-54	>250	0,876	109	
	68			PI: 4000	-52	>250	0,881	109	
	100			-48	>250	0,892	112		
	150			-46	>250	0,902	111		
<b>MOLYKOMP SE</b>	32		ESTER	V: 8000	-54	>250	0,930	116	Fully synthetic high performance fluids, studied for the reciprocating and rotary compressors working is several conditions. Totally without any carbon residual also in a critical condition, it avoids with its characteristic the " hot point" that can generate the explosion. The high performance allows the start-up, also low temperatures. It is possible to mix with all type of oil, either mineral or synthetic but not with PAG oil.
	46			PA: 5000	-51	>250	0,930	115	
	68			PI: 4000	-45	>250	0,930	75	
	100			-36	>250	0,962	89		
	150			-31	>250	0,965	90		
<b>MOLYKOMP SE VP</b>	100		ESTER	5000	-34	260	0,957	80	Fully synthetic fluids studied for rotary and reciprocating vacuum pump, working in extreme condition. Low evaporation allows the reduction of oil consumption. Can reach 5000 hr as working time. We suggest to avoid to mix with other lubricant otherwise we can loose the high performance and quality. It is possible to mix with all type of oil, both mineral and synthetic but not with PAG oil.

(1) Following the oil change intervals are recommended. The intervals indicated in the table refer to conditions of use "normal"; for a strictly use, dependent on the severity of the cycle, the quality and air temperature, the ambient conditions, warm and moist climates, we recommend a range of exchange rates reduced. Periodic analysis of the oil can locate the correct number of hours of use.

**Legend: V= Screw Compressors; PA= Vane Compressors; PI= Alternative Compressors**

Product	ISO VG	Registration Number NSF	Base oil	Indicative Range (1) (hours)	Pour Point (°C)	Flash Point Open Cup (°C)	Volumetric Mass at 15°C (Kg/dm3)	Viscosity Index	Characteristics and Fields of Application
MOLYKOMP SE MP	68		ESTER	PA: 5000	-42	>235	0,955	130	Fully synthetic oil for rotary vane compressors (Mattei type) working in several conditions. Totally without any carbon residuals also in a critical condition, avoiding with its characteristic the "hot point" that can generate the explosion. The high performance allows an easy start-up also at low temperature. It is possible to mix with all type of oil, either mineral or synthetic, but not with PAG oil.
MOLYKOMP SE P	100 150		ESTER	4000	-36 -30	>260 >260	0,950 0,965	70 70	Fully synthetic oil with high performance, specially studied for high pressure reciprocating compressors for breathing air. Due to its characteristics it is suggested for the vacuum pumps. The high thermal stability allows to produce a very low amount of CO and CO2 (regulation STANAG 1097). It is suggested for different applications like scuba, hyperbaric chambers, pharmaceutical and medical applications. It is possible to mix with all type of oil, either mineral or synthetic, but not with PAG oil.
SYNTOIL	32 46 68 100		PAO ESTER	V: 8000 PA: 5000 PI: 4000	-54 -51 -45 -36	>230 >230 >230 >230	0,855 0,855 0,895 0,895	140 170 170 130	High performance synthetic oil containing detergent and antioxidant additives for rotary and reciprocating compressors and vacuum pumps working also at very high and low temperature. It is possible to mix with all type of oil, either mineral or synthetic, but not with PAG oil.
MOLYKOMP SX	32 46 68		SYNTHETIC	V: 4000	-30 -30 -30	>230 >230 >230	0,875 0,877 0,880	101 101 106	Fully synthetic oil for rotary screw compressors, also two-stage and vacuum pumps. It is possible to mix with all type of oil, either mineral or synthetic, but not with PAG oil.


(1) Following the oil change intervals are recommended. The intervals indicated in the table refer to conditions of use "normal"; for a strictly use, dependent on the severity of the cycle, the quality and air temperature, the ambient conditions, warm and




Legend: V= Screw Compressors; PA= Vane Compressors; PI= Alternative Compressors








### Protective fluids

Product	ISO VG	Micron thick film	Base oil	Covering Power (m2/lt)	Pour Point (°C)	Flash Point (°C)	Volumetric Mass at 15°C (Kg/dm3)	Viscosity Index	Characteristics and Fields of Application
OCB CS		65	WAXY	8 - 10		>60	0,850		Fluid containing protective wax, selected for long-term anti-rust treatment waxy components stored outdoors in a hostile environment. It has moderate dehydrating properties. Ideal for the protection of the pieces intended for carriage by sea.
WFK	29	2,5	OILY	90	-8	>220	0,880		Anti-rust oil and lubricant for protection in average duration of moulds, tubes stored indoors.

## Oils and fluids of conveyors chains

Product	ISO VG	Registration Number NSF	Base oil	Operating temperature range(°C)	Pour Point (°C)	Flash Point Open Cup (°C)	Volumetric Mass at 15°C (Kg/dm3)	Viscosity Index	Characteristics and Fields of Application
<b>MOLY CHAIN AL</b> 	150 220 320 460	148191 148192 139428 148193	PAO	max 250	-42 -40 -40 -37	>220 >230 >250 >250	0,850 0,858 0,860 0,862	126 121 118 117	High performance fully synthetic oil, for transmission chain, conveyor chain working in high loads, high temperature and in humidity presence. Studied for pharmaceutical and food industry where is required a non-toxic oil with <b>NSF register code number H1 group</b> .
<b>ERRE 9</b>	220		ESTER	-20 +250	-30	>240	0,955	127	High performance fully synthetic oil. Without silicon, it is able to resist to high temperatures and loads. Studied for conveyors and transmission chains working at high temperature. It finds application in automotive, textile conveyor chains and all the other type of chains where is required an high stability oil at high temperatures.
<b>ERRE 19</b>	320		ESTER	-25 +250	-40	>250	0,945	130	High performance fully synthetic oil. Without silicon, it is able to resist to the high temperature and loads. Studied for conveyors and transmission chains working at high temperature. It finds application in automotive, textile conveyor chains and all the other type of chains where is required an oil with high stability at high temperature.
<b>IDROLVERN PLUS</b>	150		SYNTHETIC	-20 +200	-40	>250	1,050	220	Synthetic fluid forms a thin film resistant at medium-high load. Water soluble lubricant for chains of plants dip painting, miscible and compatible with water-based paints.
<b>LUBE PTFE</b>	46		SYNTHETIC	-20 +180	-45	>205	0,840	140	High fluidity lubricant with PTFE. Great penetrating power, it is able to protect from the oxidation and corrosion, resistant to high temperature and water resistant. It is used to lubricate transmission chains, sliding guides and cables.
<b>MF/L (ISO VG 100)</b> <b>MF/M (ISO VG 220)</b> <b>MF/H (ISO VG 320)</b>	100 220 320		SEMI- SYNTHETIC	-20 +250 (oily layer) -20 +400 (oily dry)		>200 >200 >200	0,900 0,900 0,900	100 100 100	Stabilized colloidal dispersion of molybdenum disulphide in semi-synthetic fluid, silicon free. It is suggested for: conveyor, overhead conveyor roller provide in a tunnel in medium speed. Anti drop for systems with automatic lubrication.
<b>MK SPECIAL</b>	32 46 68 100 150 320 460 680		MINERAL		-20 -18 -16 -14 -12 -4 -4 -4	228 230 240 246 250 260 260 260	0,868 0,872 0,878 0,889 0,894 0,908 0,910 0,915	103 103 102 102 102 100 98 103	Product with mineral lubricant especially selected, high adhesiveness, containing solid lubricants. It is suggested where it is required an anti-drop oil.
<b>RSM 9</b>	220		ESTER	-20 +250 (peak up to 450 °C)	-30	>240	0,950	127	Synthetic fluid containing stabilized colloidal dispersion of molybdenum disulphide, for limit lubrication. Suggested for: chains, bearings, conveyor rollers provide in ovens or dryers. It provides excellent wear protection in presence of high specific loads at very high temperatures.

Product	ISO VG	Registration Number NSF	Base oil	Operating temperature range (°C)	Pour Point (°C)	Flash Point Open Cup (°C)	Volumetric Mass at 15°C (Kg/dm3)	Viscosity Index	Characteristics and Fields of Application
RSM 19	320		ESTER	-20 +250 (peak up to 450 °C)	-40	>250	0,945	130	Synthetic fluid containing stabilized colloidal dispersion of molybdenum disulphide, for limited lubrication. Suggested for: chains, bearings, conveyor rollers provide in oven or dryers. Anti-wear properties also in high loads and at high temperature.
MOLYSIL FLUID 200/2 MOLYSIL FLUID 200/50 MOLYSIL FLUID 200/100 MOLYSIL FLUID 200/350	2 50 100 350 (a 25°C)		SILICON	-40 +200 -40 +250 -40 +250 -40 +250	-100 -52 -52 -47	>85 >250 >250 >250	0,872 0,960 0,970 0,970		Pure silicon fluid. It is suggested as: hydraulic oil, release agents, lip for plastic, dielectric fluids. Lubricant fluids for different sectors, suitable also for food industry.
<b>Textile sector fluids</b>									
MOLY CHAIN	100 150 220 320 460		ESTER	-10 +250	-18 -16 -16 -15 -15	>250 >250 >250 >250 >250	0,910 0,920 0,950 0,945 0,940	150 150 140 130 130	<b>Synthetic fluid clear. It forms a thin transparent film resistant to medium-high loads and temperatures. Suitable for chains, bearings into the textile industry, working in severe or aggressive condition.</b>
MOLY TISS	22 32 46 68		ESTER		-30 -30 -30 -30	>280 >280 >280 >280	0,870 0,872 0,875 0,880	130 130 125 125	Washable synthetic oil with high performance. It has anti-static properties. Suggested for circular knitting machines, spindles lubrication, where it is required a washable oil.
RAM W	46		SEMI-SYNTHETIC		-18	>250	0,855	110	Semi-synthetic oil, clear, adhesive with strong anti-drop, anti-rust, anti-wear properties. It leaves a clear film resistant to loads. Suggested for gears, bearings, guides of textile and food industry.
<b>Pharmaceutical food sector fluids</b>									
FLUID FOR FOOD 	15 32 46 68	143117 143118 143120 140393	MINERAL FU	-5 +100	-10 -11 -11 -12	185 200 205 220	0,845 0,850 0,855 0,865	105 103 101 100	Extra refined vaseline oil. Suitable for lubrication of food and pharmaceutical plants where conditions are required to be absolutely non-toxic. Product code registered with <b>NSF H1 and 3H (only grades 32, 46, 68)</b> .
HYDRO SINT 	32 46 68	142921 142922 142923	PAO	-40 +120	-50 -50 -45	230 232 235	0,840 0,840 0,840	140 140 150	Synthetic non-toxic lubricant with PAO base. High viscosity index, low pour point, anti-wear, anti-rust, excellent antioxidant properties and thermal stability. It is suggested for hydraulic bearings working in very low or high temperature. Long life lubricant. Product code registered with <b>NSF H1 group</b> .
MOLY CHAIN AL 	150 220 320 460	148191 148192 139428 148193	PAO	-35 +250	-42 -40 -40 -37	>220 >230 >250 >250	0,850 0,858 0,860 0,862	126 121 118 117	Fully synthetic non-toxic lubricant with high performances, resistant to loads and high temperatures. Suitable for chains, conveyor roller bearings, conveyor chains working in the pharmaceutical and food industry, although operating at high temperature and high humidity. Product code registered with <b>NSF H1 group</b> .

Product	ISO VG	Registration Number NSF	Base oil	Operating temperature range (°C)	Pour Point (°C)	Flash Point Open Cup (°C)	Volumetric Mass at 15°C (Kg/dm <sup>3</sup> )	Viscosity Index	Characteristics and Fields of Application
MOLYKOMP FG 	32	147120	PAO	-40 +120	-51	225	0,835	141	Non-toxic synthetic oil for air compressors, suggested also for vacuum pumps, where it is required a non-toxic lubricant. ISO VG 46 and 100 <b>registered NSF H1</b> .
	46							140	
	68							139	
	100	137							
	150	137							
MULTISBLOC FG 		147119		-12 +140	-12	75	0,770		Non-toxic unlocking fluid with penetrating lubricants and protective properties. Used in various applications in the food, cosmetic, pharmaceutical industry where the lubricant can get in touch with the product. It leaves a lubricating film on the treated parts as protective and lubricant agent. Product code registered with <b>NSF H1 group</b> .
SPECIAL FG 	5	147122 147123	PAO	-55 +140	-68	160	0,805	100	Non-toxic synthetic fluid for pneumatic lines used in food industry where it is possible to get in touch with the processing product. Excellent lubricant, it creates a film that is resistant to the heavy load and high temperature. It is used where it is required a fluid lubricant in a pneumatic equipment. ISO VG 15-22 and 100 <b>registered NSF H1 group</b> .
	10							120	
	15							120	
	22							135	
SPECIAL MB 	32	147413	MINERAL FU	-10 +120	-27	210	0,850	111	Non-toxic white mineral oil, adhesive used in various applications in food industry where it is possible to get in contact with the processing product. It provides excellent lubricity and resistance to loads and temperatures. It is suggested for use in packaging machines, open gears, chains where it is needed a white, adhesive and anti-wear lubricant. Product code registered with <b>NSF H1 group</b> .
	46	147414						110	
	68	147415						110	
	100	149002						107	
	150	149003						105	
	220	149004						107	
	320	149005						107	
	460	149006						109	
680	149007	110							
DLID ELEFANT  	22	147548			-35	>100	1,095		Inert and non-toxic solution with high penetrating power. Descaling for sugar and sugary substances of machines operating in the food and pharmaceutical industry. Product code registered with <b>NSF H1 group and INS H1 (n° reg. 1796187)</b> .
SPECIAL TF OIL	22			-25 +250	-35	84	0,879		Synthetic base fluid with micronized PTFE, developed to clean, lubricate and protect metal surfaces operating in hard conditions, even in presence of abrasive or corrosive conditions. Applicable by brush or spray.
GEAR SINT SX 	32	140625	PAO	-30 +140	-48	>200	0,840	140	Synthetic oil with PAO base, equipped with a high viscosity index, low pour point, anti-wear EP and anti-rust additives. High thermal stability, suggested for gears, bearings working in extreme temperature changes. Product code registered with <b>NSF H1 group</b> .
	46	140626						140	
	68	140627						150	
	100	140628						150	
	150	140629						150	
	220	140630						160	
	320	140631						173	
	460	140632						170	
680	140633	175							

<b>3560</b>	460		SYNTHETIC	-20 +160	-10	>200	0,900	120	Synthetic non-toxic oil with high adhesion and EP, anti-wear, anti-oxidant additives. Suitable for the lubrication of mechanical operating in the food and pharmaceutical industries. Anti-drop properties.
<b>MPM</b>	100 150		MINERAL		-14 -12	246 250	0,889 0,894	102 102	Special non-toxic oily compound with high natural demulsivity with EP and anti-wear additives. Suitable for machines for apple, pears peeling. It ensures total oil water separation in a short time.
<b>ORION</b>	150		SYNTHETIC		-20	>200	0,990		Synthetic non-toxic lubricants with EP, anti-wear and anti-oxidant additives. Suitable for the lubrication of conveyor sole present in the food industry, subject to washing with aggressive substances.
<b>MOLY TENDER</b>			MINERAL FU		-10	>200	0,920		Inert and non-toxic solution with high penetrating power. Descaling for sugar and sugary substances of machines operating in the food and pharmaceutical industry.
<b>SED LUBE</b>	200 (a 100 °C)		SYNTHETIC		-10	>270	0,900	>110	Synthetic, non-toxic, clear and highly adhesive lubricant, with E.P., anti-oxidant and anti-rust additives. Application: sliding movements and worms gears, although operating in contact with the water or other fluids. It reduces the noise of gears.
<b>Bearing and gear lubrication fluids</b>									
<b>GEAR SINT</b>	32 46 68 100 150 220 320 460 680 1000		PAG	-30 +170	-45 -45 -35 -42 -45 -36 -30 -27 -22 -20	200 210 220 220 225 225 230 230 230 230	0,997 0,997 0,998 0,998 0,998 0,999 1,000 1,000 1,000 1,000	150 180 200 200 210 200 210 220 260 286	Synthetic fluid with PAG base, high lubricity containing EP, anti-wear and anti-oxidant additives. Suitable for "long life" gears and gears box working with medium-high loads and high temperatures. Compatible with seals, paints or other materials designed for use with PAG fluids.
<b>GEAR SINT BIO</b>	150 220 320 460		SYNTHETIC ESTER	-15 +110	-20	280	0,962 0,965 0,997 1,010	135 143 145 145	Fluids based on biodegradable synthetic esters and special additives with outstanding EP properties and antioxidants. Suitable for lubrication "long life" of gears and bearings, also operating in severe service, whenever prompted an oil that does not damage the vegetation and ground water. DIN 51517 p.3 CLP; ISO L-CDK; FZG load stage 12.
<b>GEAR SINT EP</b>	68 100 150 220 320 460		PAO	-30 +130	-45 -41 -40 -37 -32 -30	>200 >200 >200 >200 >200 >200	0,840 0,860 0,870 0,890 0,900 0,910	140 150 150 160 170 170	Synthetic high quality oil with PAO base and special EP additives. Specially studied for the lubrication of heavy loaded gears, bearings and linkages operating at very low or very high temperature. Suitable for chemical, metallurgic, paper, textile, plastic industry etc..
<b>GEAR SINT SX</b>	32 46 68 100 150 220 320 460 680	140625 140626 140627 140628 140629 140630 140631 140632 140633	PAO	-30 +140	-48 -48 -45 -42 -40 -37 -32 -30 -30	>200 >200 >200 >200 >200 >200 >200 >200 >200	0,840 0,840 0,840 0,860 0,870 0,890 0,900 0,900 0,915	140 140 150 150 150 160 173 170 175	Synthetic oil with PAO base, equipped with a high viscosity index, low pour point, anti-wear, anti-rust additives. High thermal stability, suggested for gears, bearings working in extreme temperature changes. Product code registered with <b>NSF H1 group.</b>

Product	ISO VG	Registration Number NSF	Base oil	Operating temperature range (°C)	Pour Point (°C)	Flash Point Open Cup (°C)	Volumetric Mass at 15°C (Kg/dm3)	Viscosity Index	Characteristics and Fields of Application
GEAR SINT XE	68		SEMI-SYNTHETIC	max 150	-27	240	0,875	101	Semi-synthetic oil with special EP additives, studied for gear boxes working with heavy loads and high temperatures. They can also be used on heavily loaded bearings, bushes and supports. High prevention against the micro-pitting. It meet the manufacture's requirements FLENDER. It exceeds specification: ISO-L.CKC, AGMA 250.04, US Steel 224 and DIN 51517 pary 3 CLP.
	100				-27	244	0,880	102	
	150				-24	250	0,890	101	
	220				-24	253	0,895	101	
	320				-24	258	0,900	103	
	460				-21	260	0,905	114	
	680				-21	265	0,910	116	
1000		-21	270	0,915	180				
SED LUBE	200 (a 100 °C)		SYNTHETIC		-10	>270	0,900	>110	High viscosity synthetic oil, non-toxic clear adhesive, anti-wear, anti-rust with EP additives. Suitable for sliding and worm gear working in water condition also at medium temperatures. It reduces noises.
<b>General application fluids</b>									
MOLY K EP	10		MINERAL		-22	150	0,850	--	Mineral fluids with strong capability EP, containing a percentage of molybdenum disulphide. Suitable for gears and gearboxes in carter working with high loads and temperatures.
	15				-24	220	0,854	102	
	32				-20	228	0,868	102	
	46				-20	234	0,873	102	
	68				-18	240	0,878	102	
	100				-16	244	0,887	101	
	150				-12	250	0,892	100	
	220				-8	258	0,898	99	
	320				-6	260	0,904	98	
	460				-4	260	0,906	96	
680		-4	280	0,910	94				
MOLY KM	32		MINERAL		-20	228	0,868	102	Mineral fluids highly selected clear stickers with excellent stability even at low temperature. Suitable for general lubrication of industrial machinery operating in normal conditions of temperature, loads and speed.
	46				-20	234	0,872	103	
	68				-18	240	0,883	104	
	100				-16	244	0,889	102	
	150				-12	250	0,894	102	
	220				-8	258	0,901	101	
	320				-6	260	0,908	100	
460		-4	260	0,910	100				
GUIDE WRST 68	68		MINERAL		-18	240	0,880	104	Oil for machine tool guides with excellent emulsion separates from property so as to prevent contamination of the same.
CALIBRATION A	2,5		MINERAL			>93	0,828		Fluid with special physical and chemical characteristics and constant viscosity within narrow limits. Formulated for the calibration of the injection facilities. Employable for diesel engines inactive for a long time. ISO 4113 SAE J 967 and BOSH 155665OL.
HT 5	100		MINERAL		-10	>200	0,890	90	Stabilized colloidal dispersion of molybdenum disulphide with additives, anti-oxidants, anti-foam in mineral oil. It is used as an additive for cutting oils and speed reducers.

Product	ISO VG	Registration Number NSF	Base oil	Operating temperature range (°C)	Pour Point (°C)	Flash Point Open Cup (°C)	Volumetric Mass at 15°C (Kg/dm3)	Viscosity Index	Characteristics and Fields of Application
APS						>200 (concentrated)	0,980		Product free from silicon compounds to be used in aqueous dilution specially formulated to facilitate the release of plastic products from the moulds, as well as avoid the breakage of the wire when the welding operation continues.
MOLY WAS						>200 (concentrated)	0,980		Odorless water-based fluid, containing no silicon and free from aggressive agents. Used as anti-spatter welding. Suitable as a mould release of plastics that requires subsequent painting operations.
MULTISBLOC	10,2					>73	0,840		Unlocking fluid with anti-rust, penetrating with light lubrication power. For oxidized bolts, pins, bearings blocked by rust.
RUST CLEANER 30	10,2				-15	>73	0,810		Descaling fluid and rapid unlocking effect, removes rust and water residues. Suitable for oxidized mechanisms, bolts pins blocked by rust.
SAFETYCUT 3	15		MINERAL		-30	easily infammabile	1,030		Cutting oil for ferrous metals with excellent anti-seizing properties, lubricity and cooling action. Long service for tools and excellent surface finishes. Suitable for drilling, tapping, thread and cutting steel at low and medium workability.
TMW 77			AMINES		-10	not infammabile	1,000		Mixture degreaser and disinfectant for extreme circuit cleaning of machine tools operating with water-based lubricating coolants.
THERMOFLUID 100	100 (a 25 °C)		SILICON	-35 +250 (open vessel systems)	< -50	>310	0,970		Pure silicon fluid, suggested as heat transfer fluid, suitable also as lubricants for different fields included food industry. Working temperature till 250°C in air presence and 300°C in sealed systems.
THERMOFLUID SF 32	29,6		SYNTHETIC	-10 +345	-32	170	1,011		Thermal synthetic oil, high thermal stability and resistance to oxidation. Suitable for closed circuits. Suggested also for the thermal electric heating. Max working temperature +345°C. (in a closed circuits).
THERMOFLUID SF 19	19		SYNTHETIC	-10 +290	-40	>200	0,872		Thermal synthetic oil, very high thermal stability and resistance to oxidation. Suitable for closed or open circuits, specially operating at low pressure, like thermal electric heating. Max working temperature +290°C (in a close d circuits).
HYDRO BD	32 46 68		SYNTHETIC ESTER	-15 +80	-28 -27 -27	302 305 306	0,910 0,920 0,930	185 183 181	Biodegradable hydraulic oil fire resistant, self-extinguishing. Suitable for hydraulic circuits working near heat sources where it exists a fire hazard.
SLM			SOLVENTS		-35	easily infammabile	1,150		Degreasing solvent suitable for cleaning from any type of grease, wax and dirty of all kinds. Suitable for electrical motor, generators and alternators etc..

**Legend** PAG = POLYALKYLENE GLYCOL  
PAO = POLYALPHAOLEFINES

## GREASE PASTE AND COMPOUND



Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application
							EP	Graphite	MoS2	PTFE	Tackifying	Various	
<b>Anti-seize pastes and additives solid</b>													
PASTA 35	BENTONITE	2	MINERAL (460)	INF.	-20 +400	BLACK	■	■	■			■	Infusible paste with mineral oil base containing molybdenum disulphide, anti-oxidant agents and EP additives. Suitable for anti-seize rail of machine tools, bolts and nuts shrinking and EP gears.
PASTA 70	BENTONITE	2	MINERAL (460)	INF.	-20 +400	BLACK	■	■	■			■	Paste with mineral oil base anti-seize with high molybdenum disulphide concentration, anti-oxidant agents and EP additives. Suggested as anti-friction, anti-seize for guides under heavy loads.
PASTA ST B	LITHIUM COMPLEX	2/3	MINERAL (460)	260	-25 +170 (peak 200°C)	WHITE				■		■	White, anti-seize paste containing high percentage of PTFE. Suggested as anti-seize for gears at medium temperature.
POLVERE NU					+450 (in the presence of air)	BLACK/ GREY			■				Extra fine powdered molybdenum disulphide ( dimension max 1 micron ). Suitable for moulding, dry drawing, optical instruments and oxygen valves.
<b>Chain woven-wire lubricants</b>													
AT	BENTONITE	2 3	MINERAL (460)	INF.	-15 +200 (peak 215 °C)	BLACK	■	■	■			■	Special infusible grease with bentonite base containing powdered molybdenum disulphide. Suggested for slow bearings loads working at high temperature, furnace trolleys, ceramic and glass industry.
CF	LITHIUM COMPLEX	2/3	MINERAL (100)	280	-35 +250	GLOSSY-BLACK	■	■	■			■	Special lithium complex grease with mineral base oil containing molybdenum disulphide for high temperature, suggested for trolley wheels at high temperature.
<b>GS COMPLEX</b>	<b>LITHIUM COMPLEX</b>	0 1 2 3	<b>SEMI-SYNTHETIC (100)</b>	<b>300</b>	-20 +190 (peak 210°C)	<b>LIGHT</b>	■					■	<b>Lithium complex grease with special EP additives. stable at high temperature. Suggested for electric motor bearings, rolling mills, used also in automotive industry.</b>
GS HT K	POLYUREA	1/2	MINERAL (460)	250	-25 +180 (peak 200 °C)	BEIGE						■	Polyurea base grease, with mineral oil base containing special additives as anti-corrosion, anti-oxidant and anti-wear. Specially studied to resist to high temperature. It is suggested for rolling bearings also at high speed.
HT 3200	BENTONITE	2	MINERAL (460)	250	-20 +180 (peak 190 °C)	NUT BROWN						■	Special grease with high lubricant power, waterproof, anti-wear, anti-rust working at high temperature with low total residues. Suggested for painting bearing and rollers of continuous casting.




Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application
							EP	Graphite	MoS2	PTFE	Tackifying	Various	
HT GFT	BENTONITE	2	MINERAL	250	-20 +200	BLACK	■	■	■			■	Base grease containing solid lubricants, tribologically complete. Specially studied for high loads, shock and vibration bearings. Good performance in water presence. Suitable for dryer, oven, trolley bearings. Suggested also for Morris chain into steel plants.
<b>Bearing greases</b>													
AERO 300	LITHIUM COMPLEX	2	SEMI-SYNTHETIC (460)	275	-20 +200 (peak 220 °C)	DARK BROWN	■					■	Special lithium complex grease containing anticorrosion, anti-wear and EP additives. Suitable for rolling bearings working with high loads, temperatures and alkaline/acid ambient, waterproof.
AERO 500	ALUMINUM COMPLEX	2	MINERAL (320)	260	-10 +200 (peak 220 °C)	LIGHT BROWN	■					■	Special complex grease high stability also in critical condition, containing EP additives. Suggested for bearings in humidity presence, chemical agents, high loads, alkaline/acid ambient and temperature.
G 5402	CALCIUM ANHYDROUS	2	SEMI-SYNTHETIC (32)	145	-30 +100	AMBER LIGHT						■	Special anhydrous calcium base grease, thermal dispersant with vaseline easily able to pump. Suggested for bearing at high speed (max 30.000 rpm).
GS FRICTION	LITHIUM	2	PAO (100)	200	-45 +150	BEIGE	■				■	■	Lithium grease containing PTFE, tribologically complete. High lubricant power, anti-wear, water-repellent and thermal stable. Suitable for medium loads, environments subjected to different thermal range, humidity and temperature.
GS LT 2	LITHIUM	2	PAO (18)	180	-55 +130	BEIGE	■					■	Synthetic lithium, containing special EP, anti-wear, anti-corrosion additives. Compatible with the major elastomer/rubber used into the automotive industry. Due to its particular composition it is suggested for bearings and small gears working at high speed.
GS PL	CALCIUM ANHYDROUS	2	MINERAL (32)	145	-35 +110 (peak 140 °C)	BLACK		■				■	Special anhydrous calcium base grease with graphite. Very smooth, water-repellent. Suitable for bearings at medium loads and speed (max 20.000 rpm).
GS SLC	LITHIUM COMPLEX	00 0 1/2	PAO (460)	260	-40 +200 (peak 220 °C)	WHITE	■				■	■	Lithium complex grease with synthetic base oil, containing high PTFE percentage with micro grain-size. Suggested for bearings working at medium/slow speed, high temperature also in presence of humidity and mills conveyors.
<b>GS ROLLER DR</b>	<b>CALCIUM SULFONATE</b>	<b>1/2</b>	<b>MINERAL (240)</b>	<b>300</b>	<b>-30 +200 (peak 220° C)</b>	<b>DARK BROWN</b>	■					■	<b>Calcium sulphunated grease, high thermal stability for all the heavy duty applica- tion. Long life also in critical conditions like: high loads, chemical agents, humidity, high/low temperatures. suggested for rolling mills and continuous casting.</b>
LMP 180	LITHIUM	2	MINERAL (100)	180	-20 +140	BLACK	■		■			■	Lithium grease with EP additives, containing molybdenum disulphide. Suggested for electric motor, automotive, aeronautic, rolling mills industry.

Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application
							EP	Graphite	MoS2	PTFE	Tackifying	Various	
<b>MOLYGREASE AL</b>	ALUMINUM COMPLEX	2	MINERAL (900)	260	-20 +170	GREEN	■					■	Aluminium complex grease with anti-oxidant, anti rust and EP additives. Suitable for bearings subject to water washout, at high temperature and pressure.
<b>MOLYGREASE BS</b>	LITHIUM	2	ESTER (180)	190	-20 +120 (peak 130 °C)	NUT BROWN	■					■	Biodegradable grease for the bearings lubrication in medium-high temperature also working in water presence or high humidity where it is possible a grease dispersion into the environment. It respects the standards CEC L 33-A-93 >80%.
<b>MOLYGREASE CAA</b>	CALCIUM ANHYDROUS	2	MINERAL (220)	145	-10 +120	AMBER LIGHT	■					■	Anhydrous calcium grease with medium viscosity mineral oil base. Suitable for all the applications where it is required high water and pressure resistance in medium temperature. Suggested for bearings lubrication exposed to violent water jets, in humid ambients like paper industry.
<b>MOLY PLEX</b>	ALUMINUM COMPLEX	1 2	MINERAL (100)	275	-20 +170 (peak 190 °C)	BROWN	■					■	Aluminium complex grease resistant to fluid containing surfactants. Suitable for bearings subject to washout from alkaline substance.
<b>Low temperatures greases</b>													
<b>GS ARTIC</b>	LITHIUM COMPLEX	1/2	PAO (32)	260	-55 +180 (peak 220 °C)	WHITE	■				■	■	Lithium complex grease with synthetic base oil, easily able to pump also at low temperature. Suitable for bearings, wheels used into a cold rooms or in other application at very low temperature.
<b>LOW TEMPERATURE GREASE</b>	LITHIUM COMPLEX	1	MINERAL (100)	275	-35 +170 (peak 200 °C)	LIGHT BROWN	■				■		Lithium complex grease for low temperature containing PTFE. Suitable for aeronautical industry, radar equipment and refrigeration industry.
<b>GS LT 2</b>	LITHIUM	2	SYNTHETIC (18)	180	-55 +130	BEIGE	■					■	Synthetic grease lithium grease, containing special EP, anti-wear, anti-corrosion additives. Compatible with the major elastomer/rubber used into the automotive industry. Due to its particular composition it is suggested for bearings and small gears working at high speed.
<b>High temperatures greases</b>													
<b>ANP 40</b>	BENTONITE	2/3	MINERAL (460)	INF.	-15 +1200	BEIGE	■					■	Special compound containing micronized metal oxides. Suitable for foundry telescopic spoons, anti-seize for die casting.
<b>COMPOUND RA 40</b>	BENTONITE	2	MINERAL (460)	INF.	-15 +1000	COPPER BEIGE	■					■	Special infusible grease compound with bentonite base containing micronized copper powder. Suitable for screw at very high temperatures, turbines plates etc.

Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application	
							EP	Graphite	MoS2	PTFE	Tackifying	Various		
HM	BENTONITE	2	MINERAL (460)	INF.	-20 +170 (peak 200 °C)	DARK COPPER	■	■	■				■	Special infusible grease with bentonite containing micronized copper powder. Suitable for high temperature high loads, shock and vibrations.
<b>Silicone greases</b>														
CSO SYL	LITHIUM	1 2	MINERAL/SILICON (120)	180	-25 +160	DARK							■	Special grease with lithium base, containing high performance silicon. Suitable for bearings, mechanical parts with plastic sheaths, suggested for automotive industry.
HVG WRAS Test BS 6920 No. 1304500	BENTONITE	3	SILICON (12500 at 25°C)	INF.	-5 +220	TRASPARENT								Pure silicon compound for high vacuum. Suitable for valves, pumps, water-repellent, anti-corrosion protection from chemical agents. Approved from <b>WRAS</b> for contact with hot and cold water.
HVG EN	BENTONITE	3/4	SILICON (15000 at 25°C)	INF.	-5 +220	TRASPARENT								Pure silicon compound, formulated with high viscosity oil base. Suitable for protection for electrical high voltage. Resistant to discharge values voltage of 12,8 KV.
SYL 133	BENTONITE	0/1	SILICON (1500 at 25°C)	INF.	-10 +220	TRASPARENT								Pure silicon compound. Suitable for o-ring protection and seals. It reduces the noises plastic/plastic.
<b>Grease for marine</b>														
GS 2039	ALUMINUM COMPLEX	1/2	MINERAL (100)	280	-20 +180 (peak 200 °C)	WHITE							■ ■	Special grease aluminium complex base, totally water repellent and anti-corrosive. Maximum protection also in presence of high loads and high temperatures. Suitable for beverage, sterilizers, pasteurizers and shipbuilding industry.
IDROSFER	CALCIUM ANHYDROUS	2	MINERAL (100)	150	-20 +110	WHITE							■ ■	Waterproof grease and temperature resistance based anhydrous calcium, containing polymers thickeners. Suitable for bearings in water-humidity presence where it is required an efficient corrosion protection.
WB	LITHIUM	1 2	MINERAL (100)	180	-15 +130 (peak 150°C)	WHITE							■	<b>Clear grease with lithium base, excellent waterproof also at high temperature. Suitable for beverage, sterilizers, pasteurizers and shipbuilding industry.</b>
<b>Grease for gears - Open gears and General purpose</b>														
I.SCO 10	CALCIUM ANHYDROUS	00 1 2	MINERAL (150)	135 145 145	-20 +100	BLACK	■	■					■ ■	Very adhesive grease water-repellent grease, containing solid lubricants. Suggested for open gears and ropes where it is required protection from the water and loads resistance.
XR 120	BENTONITE	3	MINERAL (460)	INF.	-15 +210	AMBER	■						■ ■	Special stringy and adhesive grease, with antioxidant and EP additives. Prevents metal/metal contacts. Suggested for open gear with heavy loads at low speed.

Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application	
							EP	Graphite	MoS2	PTFE	Tackifying	Various		
<b>VSF 00</b>	LITHIUM	00	MINERAL (100)	180	-30 +100 (peak 120 °C)	BROWN	■					■	■	Semi synthetic fluid grease with EP features, available with NLGI 00 grade. Suitable for gear boxes with high loads and medium-high speed.
<b>Pharmaceutical food sector greases</b>														
<b>MOLYGREASE DMP PTFE</b> Reg NSF H1 2 150700	PTFE	2	SILICON (200 at 25°C)	250	-50 +200	WHITE					■			Medium viscosity silicon grease thickened with PTFE for bearings operating in a wide temperature range with medium loads. High water resistance. Resistance to organic solvents and acid or alkaline solutions. Product code registered with <b>NSF H1 group</b> .
<b>FG NEW</b> Reg NSF H1 0 137951 2 130665	CALCIUM ANHYDROUS	0 2	MINERAL FU (68)	150	-30 +100 (peak 120 °C)	LIGHT							■	Anhydrous calcium grease ivory color, odorless, tasteless, water-repellent. Suitable for food and pharmaceutical packaging equipment, operating at medium-high temperature, where it is necessary the maximum non-toxic condition. Product code registered with <b>NSF H1 group</b> .
<b>FLUORGREASE FG 2</b> Reg NSF H1 2 149640	PTFE	2	PFPE (440)	300	-30 +260 (peak 280 °C)	WHITE	■					■	■	Fluorinated grease, PFPE base, long life containing PTFE additives. High thermal stability. Suitable for bearings in critical conditions also at high temperature. Resistant to water and solvent agents. Product code registered with <b>NSF H1 group</b> .
<b>FOOD GREASE R</b> Reg NSF H1 2 133239	BENTONITE	2	PAO (100)	INF.	-35 +200	LIGHT GREY					■	■	■	Synthetic grease, non-toxic, with inert thickener containing PTFE. Stable at low-high temperature. Suitable for food and pharmaceutical packing equipment with medium loads and humid condition (only for hand lubrication ). Product code registered with <b>NSF H1 group</b> .
<b>GS ALUSINT</b> Reg NSF H1 1 141950 2 141951	ALUMINUM COMPLEX	1 2	PAO (68)	270	-40 +210 (peak 240 °C)	WHITE							■	Aluminium complex grease with synthetic base oil, excellent long-term stability and water-acid-alkaline resistance. Suitable for the equipment machinery in the food and pharmaceutical industry. Product code registered with <b>NSF H1 group</b> .
<b>HVG</b> WRAS Test Test BS 6920 No 1304500	BENTONITE	3	SILICON (12500 at 25°C)	INF.	-5 +220	TRASPARENT								Pure silicon compound for high vacuum. Suitable for valves, pumps, water-repellent, anti-corrosion protection from chemical agents. Approved from <b>WRAS</b> for contact with hot and cold water.
<b>MOLY TEF</b> Reg NSF H1 2 137925	ALUMINUM COMPLEX	2	MINERAL FU (68)	270	-30 +170	MATT LIGHT	■					■	■	Aluminium complex grease odorless with a balance PTFE proportion. Suitable for high speed kinematic group working in aggressive environments. Product code registered with <b>NSF H1 group</b> .

Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application	
							EP	Graphite	MoS2	PTFE	Tackifying	Various		
<b>MOLYGREASE GA-AV</b>  Reg NSF H1 00 146934 0 146935 1 146936 2 146937	ALUMINUM COMPLEX	00 0 1 2	PAO (220)	270	-45 +190 (peak 210 °C)	WHITE							Aluminium complex grease with synthetic medium viscosity base oil. Excellent lubricity, water-repellent, suitable for centralized systems. Suggested for food, cosmetic and pharmaceutical industry where it is possible an accidental contact with the worked products. Product code registered with <b>NSF H1 group</b> .	
<b>WF GREASE</b>  Reg NSF H1 4/5 137926	WAXY	4/5	EXTRA PURE MINERAL	55		WHITE							Grease composed of a extra-fine mixture of paraffin hydrocarbons. Compliant with the requirement of the pharmacopoeias BP, USP, DAB-C. Excellent lubricating, emollient, insulation, separating pigment carriers properties. Suitable for food and pharmaceutical industry. Product code registered with <b>NSF H1 group</b> .	
<b>Special applications greases</b>														
<b>BLU GREASE</b>	ALUMINUM COMPLEX	2	MINERAL/ SYNTHETIC (1000)	250	-5 +170 (peak 200 °C)	MATT BLUE	■					■	■	Aluminium complex grease, strongly lubricating with adhesive power, water-resistance. Suitable for bearings, bushings on agricultural machinery.
<b>BLU GREASE WINTER</b>	ALUMINUM COMPLEX	1	MINERAL/ SYNTHETIC (850)	250	-5 +170 (peak 200 °C)	MATT BLUE	■					■	■	Aluminium complex grease strongly lubricating with adhesive power, water-resistance. Suitable for bearings, bushing on agricultural machinery.
<b>CE</b>	BENTONITE	1/2	PAO (36)	INF.	-40 +200	AMBER	■						■	Lubricating grease with synthetic base oil containing inhibitor, detergent and anti-oxidant additives for electrical contacts, relays and potentiometers.
<b>EHT TX</b>	LITHIUM COMPLEX	2	MINERAL (460)	275	-20 +200	BLACK	■	■	■			■	■	Lithium complex grease containing EP additives and molybdenum disulphide, water-repellent. Excellent resistance to acid, steam and surfactants solutions. Suitable for bearings, bushings, o-rings subject to washout.
<b>FLUORGREASE</b>	PTFE	2	PFPE (460)	300	-20 +260 (peak 280 °C)	WHITE	■				■		■	Fluorinated grease, PFPE base, long life containing PTFE. High thermal stability. Suitable for bearings in critical conditions also at high temperatures. Resistant to water and solvent agents.
<b>GOLD GREASE</b>	ALUMINUM COMPLEX	2	MINERAL/ SYNTHETIC (1000)	275	-5 +170 (peak 190 °C to at 700°C velo dry)	DARK COPPER	■	■	■			■	■	Aluminium complex grease with special EP additives, micronized copper powder and water-resistance features. Suitable for pins, joints bearings and gears working with high loads, shock. Suitable for hydraulic hammer drill and for heavy vehicles subject to washout.
<b>GS 2040</b>	CALCIUM ANHYDROUS	3	MINERAL (100)	145	-35 +120	COPPER						■	■	Anhydrous calcium grease with anti-oxidants, anti-wear additives, stable in a wide temperature range, containing micronized copper powder. Suitable for joints and levers in power sector where it is necessary to lubricate and favoring the electricity passage.

Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application
							EP	Graphite	MoS2	PTFE	Tackifying	Various	
<b>GS 5110 A</b>	<b>PTFE</b>	<b>2</b>	<b>PFPE (460)</b>	<b>INF.</b>	<b>-30 +250 (peak 280°C)</b>	<b>WHITE</b>				■		■	<b>High technology grease with PFPE base. Specially lubricant, anti-oxidant and anti-rust power, also in a critical condition. Solvent, alkaline, acid resistant.</b>
<b>MPG TX</b>	LITHIUM COMPLEX	0 2	MINERAL (460)	275	-20 +200 (peak 220 °C)	DARK	■					■	Lithium complex grease with water repellent with EP additives. Suitable for bearings, bushes and o-rings subject to washout by water and detergent.
<b>SINVER IN</b>	BENTONITE	1	PAO (500)	INF.	-10 +200 (peak 220 °C)	AMBER						■	Synthetic grease infusible with high thermal stability, also in water-steam presence. Suitable for cams, bearings, rolling bearings and kinematic working in wide temperature range.
<b>Grease cartridges</b>													
<b>FG NEW</b> Reg.NSF H1 2 130665	 CALCIUM ANHYDROUS	2	MINERAL FU (68)	150	-30 +100 (peak 120 °C)	LIGHT						■	Anhydrous calcium grease; ivory color, water-repellent and odorless. Suitable for food/pharmaceutical packing equipment operating in medium-high temperature where it is necessary the maximum non-toxic condition. Product code registered with <b>NSF H1 group</b> .
<b>MOLYGREASE GA-AV</b> Reg.NSF H1 1 146936	 ALUMINUM COMPLEX	1	PAO (220)	270	-45 +190 (peak 210 °C)	WHITE						■	Aluminium complex grease with synthetic medium viscosity base oil, excellent lubricity, water-repellent, suitable for centralized systems. Suggested for food, cosmetic and pharmaceutical industry where it is possible an accidental contact with the worked products. Product code registered with <b>NSF H1 group</b> .
<b>MOLY TEF</b> Reg.NSF H1 2 137925	 ALUMINUM COMPLEX	2	MINERAL FU (68)	270	-30 +170 (peak 200 °C)	MATT LIGHT	■			■	■	■	Aluminium complex grease odorless with a balance PTFE proportion. Suitable for high speed kinematic group working in aggressive environments. Product code registered with <b>NSF H1 group</b> .
<b>MPG</b>	LITHIUM COMPLEX	2	MINERAL (460)	275	-20 +200 (peak 220 °C)	DARK	■					■	Lithium complex grease, with high natural demulsivity and EP and anti-rust additives. Suitable for kinematic equipment for apple, pear stripping. It ensures rapid separation from water.
<b>BLU GREASE</b>	ALUMINUM COMPLEX	2	MINERAL/ SYNTHETIC (1000)	260	-5 +170 (peak 200 °C)	MATT BLUE	■					■	Aluminium complex grease, strongly lubricating with adhesive power, water resistant. Suitable for bearings, bushings on agricultural machinery.

Product	Thickener type	Available gradation (NLGI)	Base oil (viscosity cSt at 40°C)	Point drop (°C)	Working temperatures (°C)	Colours	Additives						Characteristics and Fields of Application	
							EP	Graphite	MoS2	PTFE	Tackifying	Various		
<b>BLU GREASE WINTER</b>	ALUMINUM COMPLEX	1	MINERAL/ SYNTHETIC (850)	260	-5 +170 (peak 190 °C)	MATT BLUE	■					■	■	Aluminium complex grease, strongly lubricating with adhesive power, water resistant. Suitable for bearings, bushings on agricultural machinery.
<b>EHT</b>	LITHIUM COMPLEX	2	MINERAL (460)	280	-20 +200 (peak 220 °C)	BLACK	■	■	■			■	■	Lithium complex grease. Containing EP additives and molybdenum disulphide, water-repellent. Excellent resistance to acid, steam and surfactants solutions. Suitable for bearings, bushings, o-rings subject to washout.
<b>GOLD GREASE</b>	ALUMINUM COMPLEX	2	MINERAL/ SYNTHETIC (1000)	260	-5 +170 (peak 180 °C)	DARK COPPER	■	■	■			■	■	Aluminium complex grease with special EP additives, micronized copper powder and water-resistance features. Suitable for pins, joints bearings and gears working with high loads, shock. Suitable for hydraulic hammer drill and for heavy vehicles subject to washout.
<b>HM</b>	BENTONITE	2	MINERAL (460)	INF.	-20 +170 (peak 200 °C)	DARK COPPER	■	■	■				■	Special infusible grease with bentonite, containing micronized copper powder. Suitable for high temperature, high loads, shock and vibrations.
<b>SILVER GREASE</b>	CALCIUM ANHYDROUS	2	MINERAL/ SYNTHETIC (680)	145	-10 +110	SILVERY	■					■	■	Anhydrous calcium grease with EP properties and good water resistance. Suitable for bushings, gears, joints operating with heavy loads, shock and sliding. Suitable for hydraulic hammer.

**Legend**

PAO =POLYALPHAOLEFINES

PFPE = PERFLUOROPOLYETHER

FU = OFFICIAL PHARMACOPOEIA

INF. = INFUSIBLE



EP = EXTREME PRESSURE

P.T.F.E. = POLYTETRAFLUOROETHYLENE

MoS2 = MOLYBDENUM BISULPHIDE

## SPRAY

Product	Type of Lubricant	Operating temperature range (°C)	Characteristics and Fields of Application
3560	SYNTHETIC OIL	-10 +150	Synthetic oil with high adhesiveness. Anti-drop, penetrating for chains operating in critical conditions.
APS	SYNTHETIC OIL	Not significant	Synthetic anti-glitter oil for continuous welding. Anti-glitter during welding process to avoid the breakage of wire welding.
AT	MINERAL GREASE	-15 +240	Infusible grease containing molybdenum disulphide powder. Suitable for bearings and oven chains working at high temperature.
COPPER	PASTE	-15 +1000	Special infusible compound containing a high percentage of copper powder. Suitable for bolts, screw operating at very high temperature subjected to static loads.
<b>DLF</b>	<b>VARNISH</b>	<b>-180 +450</b>	<b>Dry lubricants containing molybdenum disulphide powder. Suitable for gears pretreatment, stenter adjustments, generally where is required a dry lubrication.</b>
DS 20	VARNISH	-40 +280	Dry lubricant containing PTFE powder, nonstick moulds. Generally suggested where is required a dry lubrication to improve the sliding and reduce the friction.
ELETTROLOC	MINERAL OIL	Not significant	Electrical contact lubricant and cleaner. Till 240 Volt.
I.SCO	MINERAL OIL	-20 +100	Highly viscous and adhesive lubricant, suitable for open gear and wire ropes lubrication.
MF	SEMI-SYNTHETIC OIL	-20 +250 (oily layer) -20 +450 (oily dry)	Semi-synthetic oil containing molybdenum disulphide. Suggested for bearings, chains, conveyor into ovens and tunnels.
MV 40 LUBRICANT	WATER REPELLENT LUBRICANT	Not significant	Multipurpose product composed by a mixture of non-flammable fluids. Thanks to their action it solves many problems related to lubrication and machinery maintenance. Anti-rust protection, releasing agent with rapid effect.
MOLY F	MINERAL OIL	-12 +250 (oily layer) -20 +450 (oily dry)	Special oil with high molybdenum disulphide concentration for textile machinery.
MOLY CHAIN AL	PAO	-30 +250	Non-toxic synthetic oil for high loads and temperature. Suitable for rolling bearings chains, conveyor working in food industry. Product code registered with <b>NSF H1 group No.148585</b> .

Product	Type of Lubricant	Operating temperature range (°C)	Characteristics and Fields of Application
MOLYGRAF GS	GRAPHITE	-50 +690	Free lubricant base oil with graphite micronized for extreme application. Made a lubricant film that cover the surface and polymerizes in 12 hours.
MOLYSIL	SILICON OIL	-30 +150	Silicon oil. Suitable as releasing agent for moulds, insulating for electric cables.
MULTIGREASE	MINERAL GREASE	-20 +150	Multipurpose grease with medium life for all type of equipments.
MULTISBLOC	MIXTURE OF SOLVENTS	Not significant	Releasing agent for ferrous and not ferrous coupling. Suitable for bearings, bolts, nuts, pins stuck from rust.
MULTISBLOC FG 	MIXTURE OF SOLVENTS	-20 +140	Non-toxic fluid with penetrating, protective and lubricant properties. Multipurpose used in different application into food, cosmetic and pharmaceutical industry. Product code registered with <b>NSF H1 group No. 148156.</b>
PASTA 35	MINERAL PASTE	-40 +400	Anti-seize paste containing molybdenum disulphide. Used as anti-seize for machine tools guides, bolts, gears, into navy, aeronautic and automotive industry.
POLVERE NU	POWDER MoS2	-100 +450	Molybdenum disulphide powder according patented methods (1 micron). Suitable for dry drawing, high precision mechanisms, optical tools and oxygen valves.
RAPID CLEAN	PETROLEUM SOLVENT	Not significant	Solvent with high detergent power. Degreasing and cleaning of mechanical parts.
SDS	SILICON FLUID MODIFIED	-30 +150	Antistatic synthetic oil. Mould release agent for rubber and plastic industry. It doesn't need to degrease the treated parts.
SAFETYCUT 3	MINERAL OIL	Not significant	Cooling lubricant for metal, even stainless steel for drilling, thread and tapping.
<b>SED LUBE</b>	<b>SYNTHETIC OIL</b>	<b>-10 +150</b>	<b>Synthetic oil, high adhesive power, for chains. Anti-drop, suitable for all type of chains working at high speed.</b>
SPECIAL TF	SYNTHETIC OIL AND SOLVENT	-25 +250	Synthetic oil containing micronized PTFE with special solvent. Suitable as lubricant detergent, releasing agent and also able to protect the surface. This product is waiting for the <b>NSF register code H1 group.</b>
MOLY TEF 	GREASE MINERAL ATOXIC	-30 +170	Grease containing PTFE and anti-oxidants additives. Suitable for bolts, joints, kinematic, working in a wide range of temperatures. Product code registered with <b>NSF H1 group No. 148157.</b>
TEX LUBE	MINERAL OIL	Not significant	Special lubricant containing EP, anti-wear, anti-oxidant and anti-static additives. Suitable for turnbuckles, fishermen, splicer, scissors used in the textile industry.
WFK	MINERAL OIL ANTI-CORROSION	Not significant	Rust inhibitor with oil film. Suitable for medium term protection and indoor storage components.

### ISO classification for industrial lubricants

ISO VG	Viscosity cSt 40°C			Approx °E at 50°C
	Midpoint	Minimum	Maxim	
2	2,2	1,98	2,42	1,1
3	3,2	2,88	3,52	1,17
5	4,6	4,14	5,06	1,29
7	6,8	6,12	7,48	1,4
10	10	9	11	1,6
15	15	13,5	16,5	1,9
22	22	19,8	24,2	2,3
32	32	28,8	35,2	3
46	46	41,4	50,6	4
68	68	61,2	74,8	5,7
100	100	90	110	8
150	150	135	165	12
220	220	198	242	16,5
320	320	288	352	24
460	460	414	506	32
680	680	612	748	45
1000	1000	900	1100	66
1500	1500	1350	1650	100

### Compatibility table of greases

	Aluminium Complex	Barium Complex	Calcium	Calcium Anhydrous	Calcium Complex	Inorganic Thickener	Lithium	Lithium Complex	Polyurea
Aluminium Complex		●	●	●	●	●	●	●	●
Barium Complex	●		●	●	○	●	●	○	○
Calcium	●	●		●	●	●	○	●	●
Calcium Anhydrous	●	●	●		○	●	●	●	●
Calcium Complex	●	○	●	○		●	●	●	●
Inorganic Thickener	●	●	●	●	●		●	●	●
Lithium	●	●	○	●	●	●		●	●
Lithium Complex	●	○	●	●	●	●	●		●
Polyurea	●	○	●	●	●	●	●	●	

● Compatible    ● Incompatible    ○ Doubtful Compatibility

### Classification for lubricating grease NLGI

NLGI	Worked penetration at 25°C (0,1 mm)	Description
000	445-475	extremely fluid
00	400-430	semifluid
0	355-385	fluid
1	310-340	tender
2	265-295	medium
3	220-250	semi solid
4	175-205	solid
5	130-160	very solid
6	85-115	hard

### Main features of the thickeners

Type of thickener	Drop point °C	Resistance to mechanical stress	Water resistance	Resistance to oxidation
Calcium soap	<100	S	B	B
Calcium Anhydrous soap	130-160	M/S	B	B
Calcium Complex soap	>220	E/B	E	E/B
Lithium soap	>170	B	M	M
Lithium Complex soap	>260	E	B	B
Aluminium soap	120-140	S	B	B/S
Aluminium Complex soap	>250	E	E	E/B
Silica gel, bentonite	Infusible	M	M	B/M
Polyurea	>250	B	E/B	E

E = excellent    B = suitable    M = medium    S = poor

PRODUCT	APPLICATION	P
3560	Drip oil for food industry	9
3560 spray	Drip oil for food industry	20
AERO 300	Semi synthetic grease for bearings	13
AERO 500	Semi synthetic grease for bearings	13
ANP 40	Compound for very high temperatures	14
APS	Anti-sparking oil	11
APS spray	Anti-sparking oil	20
AT	MoS2 grease for conveyor chains	12
AT spray	MoS2 grease for conveyor chains	20
BLU GREASE	Adhesive grease for lenses parts	17
BLU GREASE cartridges	Adhesive grease for lenses parts	18
BLU GREASE WINTER	Adhesive grease for lenses parts	17
BLU GREASE WINTER cartridges	Adhesive grease for lenses parts	19
CALIBRATION A	Injector calibration fluid	10
CE	Grease for electrical contacts	17
CF	MoS2 grease for conveyor chains	12
COMPOUND RA 40	Copper compound for very high temperatures	14
COPPER spray	Copper compound for bolts and nuts	20
CSO SYL	Water repellent silicone grease	15
DLF spray	Paint for surface treatments	20
DLID ELEFANT	Sugar residue solvent for food industry	8
DS 20 spray	PTFE paint without silicone	20
EHT cartridges	MoS2 semi synthetic complex grease	19
EHT TX	MoS2 semi synthetic grease complex	17
ELETTROLOC spray	Deoxidizing for contacts	20
ERRE 9	Lubricant for conveyor chains	6
ERRE 19	Lubricant for conveyor chains	6
FG NEW	Grease water resistant for food industry	16
FG NEW cartridges	Grease water resistant for food industry	18
FLUID FOR FOOD	Fluid oil for food industry	7
FLUORGREASE	Special grease for extreme applications	17
FLUORGREASE FG	Spec. grease for extreme applic. food industry	16
FOOD GREASE R	PTFE grease for food industry	16
G 5402	Semi synthetic grease for bearings	13
GEAR SINT	PAG fluid for gears and bearings	9
GEAR SINT BIO	Biodegradable oil for gears and bearings	9
GEAR SINT EP	PAO fluid for gears and bearings	9
GEAR SINT SX	PAO fluid for gears food industry	8/9
GEAR SINT XE	Semi synthetic fluid for gears and bearings	10

PRODUCT	APPLICATION	P
GOLD GREASE	Copper grease for hydraulic hammer	17
GOLD GREASE cartridges	Copper grease for hydraulic hammer	19
GS 2039	Water resistant grease for marine industry	15
GS 2040	Special copper grease	17
GS 5110 A	Synthetic grease for extreme applications	18
GS ALUSINT	Synthetic grease for food industry	16
GS ARTIC	Grease for low temperatures	14
GS COMPLEX	Complex grease for bearings	12
GS FRICTION	PTFE grease for bearings	13
GS HT K	Poliurea grease for bearings	12
GS LT 2	Grease for very low temperatures	13/14
GS PL	Graphite grease water resistant	13
GS ROLLER DR	Multifunctional sulfonate calcium grease	13
GS SLC	Synthetic grease for bearings	13
GUIDE WRST 68	Demulsive oil for guides	10
HM	Copper grease for severe applications	14
HM cartridges	Copper grease for severe applications	19
HT 3200	Grease for conveyor chains	12
HT 5	MoS2 additive for gears and cut oils	10
HT GFT	Grease for bearings and conveyor chains	13
HVG	Silicone compound for water contact	15/16
HVG EN	Silicone compound for food industry	15
HYDRO BD	Biodegradable hydraulic fluid	11
HYDRO SINT	Synthetic hydraulic fluid for food ind.	7
I.SCO 10	Adhesive grease for open gears	15
I.SCO 10 spray	Adhesive grease for open gears	20
IDROLVERN PLUS	Lubricant for conveyor chains	6
IDROSFER	Water-resistant grease for marine	15
LMP 180	MoS2 bearing grease	13
LOW TEMPERATURE GREASE	Low temperature grease	14
LUBE PTFE	PTFE oil for bearings and chains	6
MF spray	MoS2 semi synthetic fluid	20
MF/L-M-H	MoS2 oil for conveyor chains	6
MK SPECIAL	Adhesive oil for conveyor chains	6
MOLY CHAIN	Synthetic oil for rameuses anc chains	7
MOLY CHAIN AL	Synthetic oil for chains food ind.	6/7
MOLY CHAIN AL spray	Synthetic oil for chains food ind.	20
MOLY F spray	MoS2 oil for textile industry	20
MOLY K EP	MoS2 lubricant for gears	10

PRODUCT	APPLICATION	P
<b>MOLY KM</b>	Adhesive lubricant for gears	<b>10</b>
<b>MOLY PLEX</b>	Complex grease for bearings	<b>14</b>
<b>MOLY TEF</b>	PTFE synthetic grease for food industry	<b>16</b>
<b>MOLY TEF cartridges</b>	PTFE synthetic grease for food industry	<b>18</b>
<b>MOLY TEF spray</b>	PTFE synthetic grease for food industry	<b>21</b>
<b>MOLY TENDER</b>	Solvent fluid for food industry	<b>9</b>
<b>MOLY TISS</b>	Washable synthetic oil for textile ind.	<b>7</b>
<b>MOLY WAS</b>	Splash-proof fluid for welds	<b>11</b>
<b>MOLYGRAF GS spray</b>	Colloidale graphite for extreme applications	<b>21</b>
<b>MOLYGREASE AL</b>	Water resistant EP grease	<b>14</b>
<b>MOLYGREASE BS</b>	Biodegradable synthetic grease	<b>14</b>
<b>MOLYGREASE CAA</b>	Water resistant grease medium temp.	<b>14</b>
<b>MOLYGREASE DMP PTFE</b>	PTFE synthetic grease for food industry	<b>16</b>
<b>MOLYGREASE GA-AV</b>	EP synthetic grease for food industry	<b>17</b>
<b>MOLYGREASE GA-AV 1 cart.</b>	EP synthetic grease for food industry	<b>18</b>
<b>MOLYKOMP FG</b>	Synthetic oil for compressors in food ind.	<b>4/8</b>
<b>MOLYKOMP IR 46</b>	PAG fluid for screw IR compressors	<b>4</b>
<b>MOLYKOMP PE</b>	High perf. synthetic fluid for compressors	<b>4</b>
<b>MOLYKOMP SE</b>	High perf. synthetic fluid for compressors	<b>4</b>
<b>MOLYKOMP SE MP</b>	Synthetic fluid for vane compressors	<b>5</b>
<b>MOLYKOMP SE P</b>	Synthetic fluid for breathing air compressors	<b>5</b>
<b>MOLYKOMP SE VP</b>	Synthetic fluid for vacuum pumps	<b>4</b>
<b>MOLYKOMP SX</b>	Synthetic fluid for compressors	<b>5</b>
<b>MOLYSIL FLUID</b>	Silicone lubricant for various applications	<b>7</b>
<b>MOLYSIL Spray</b>	Silicone lubricant for various applications	<b>21</b>
<b>MPG cartridges</b>	Water resistant grease to ind. textiles	<b>18</b>
<b>MPG TX</b>	Water resistant grease to ind. textiles	<b>18</b>
<b>MPM</b>	High demulsivity oil for food ind.	<b>9</b>
<b>MULTIGREASE spray</b>	Protective and lubricating grease	<b>21</b>
<b>MULTISBLOC</b>	Penetrating and unlocking lubricant	<b>11</b>
<b>MULTISBLOC spray</b>	Penetrating and unlocking lubricant	<b>21</b>
<b>MULTISBLOC FG</b>	Penetrating lubricant for food industry	<b>8</b>
<b>MULTISBLOC FG spray</b>	Penetrating lubricant for food industry	<b>21</b>
<b>MV 40 LUBRICANT spray</b>	Unlocking and lubricant fluid	<b>20</b>
<b>OCB CS</b>	Waxy long-lasting protective	<b>5</b>
<b>ORION</b>	EP semi synthetic oil for food industry	<b>9</b>
<b>PASTA 35</b>	Anti-seize paste with MoS2	<b>12</b>
<b>PASTA 35 spray</b>	Anti-seize paste with MoS2	<b>21</b>

PRODUCT	APPLICATION	P
<b>PASTA 70</b>	Anti-seize paste with high amount of MoS2	<b>12</b>
<b>PASTA ST B</b>	Anti-seize paste with PTFE	<b>12</b>
<b>POLVERE NU</b>	Molybdenum disulfide powder	<b>12</b>
<b>POLVERE NU spray</b>	Molybdenum disulfide powder	<b>21</b>
<b>RAM W</b>	Drip-proof semi synthetic oil for textile industry	<b>7</b>
<b>RAPID CLEAN spray</b>	Solvent fluid for degreasing	<b>21</b>
<b>RSM 9</b>	MoS2 synthetic fluid for conveyor chains	<b>6</b>
<b>RSM 19</b>	MoS2 synthetic fluid for conveyor chains	<b>7</b>
<b>RUST CLEANER 30</b>	Degreasing and penetrating fluid	<b>11</b>
<b>SAFETYCUT 3</b>	Metal cutting lubricant	<b>11</b>
<b>SAFETYCUT 3 spray</b>	Metal cutting lubricant	<b>21</b>
<b>SDS spray</b>	Antistatic synthetic fluid	<b>21</b>
<b>SED LUBE</b>	Adhesive synthetic fluid for chains	<b>9/10</b>
<b>SED LUBE spray</b>	Adhesive synthetic fluid for chains	<b>21</b>
<b>SILVER GREASE cartridges</b>	Semisynth. EP grease with aluminium powder	<b>19</b>
<b>SINVER IN</b>	Water resistant grease for humid environments	<b>18</b>
<b>SLM</b>	Degreasing fluid	<b>11</b>
<b>SPECIAL FG</b>	Fluid synthetic oil for air lubrication	<b>8</b>
<b>SPECIAL MB</b>	Multipurpose oil for food industry	<b>8</b>
<b>SPECIAL TF</b>	PTFE synthetic grease for food industry	<b>8</b>
<b>SPECIAL TF spray</b>	PTFE synthetic grease for food industry	<b>21</b>
<b>SYL 133</b>	Silicone compound	<b>15</b>
<b>SYNTOIL</b>	High perf. synthetic fluid for compressors	<b>5</b>
<b>TEXLUBE spray</b>	Adhesive oil for textile industry	<b>21</b>
<b>THERMOFLUID 100</b>	Diathermic silicone fluid	<b>11</b>
<b>THERMOFLUID SF 19</b>	Synthetic heat transfer fluid for low pressure	<b>11</b>
<b>THERMOFLUID SF 32</b>	Synthetic heat transfer fluid up to 345°C	<b>11</b>
<b>TMW 77</b>	Degreasing and disinfectant for equipments	<b>11</b>
<b>VSF 00</b>	Fluid grease for gears in carter	<b>16</b>
<b>WB</b>	Water resistant grease for marine	<b>15</b>
<b>WF GREASE</b>	Consistent grease for food industry	<b>17</b>
<b>WFK</b>	Oily protective for the medium term	<b>5</b>
<b>WFK spray</b>	Oily protective for the medium term	<b>21</b>
<b>XR 120</b>	Adhesive grease for open gears	<b>15</b>

Compagnia  
Italiana  
Lubrificanti  
Spa

**MOLYguard**

**HIGH-TECHNOLOGY SPECIAL  
LUBRICANTS *just at a CLICK***

Visit the Compagnia Italiana Lubrificanti Spa website, special applications sector, and you can quickly and easily explore all the types of products; for the application sector, find out the usable lubricants and their main characteristics.

You can in real time (after a short registration):

- find the technical and safety data sheets
- consult, download and print them
- consult News

[www.compagniaitalianalubrificanti.com](http://www.compagniaitalianalubrificanti.com)



The Molyguard high-technology products are able to:

- ensure an appropriate greasing where traditional products fail
- prove to be unsuitable and inappropriate raise the productivity and allow more service economy
- distance the times of maintenance interventions
- extend the operative lifetime of the implants

Our practical experience and the constant laboratory research allow us to formulate new products, apt to fulfill the always more onerous needs connected to the continuous technological progress in the industry sector This places our Society among the most qualified global producer of lubricants for special applications.



COMPAGNIA ITALIANA LUBRIFICANTI S.p.A.  
20145 Milano - Largo Domodossola, 7 - Telefono 02 34553.1  
[www.compagniaitalianalubrificanti.com](http://www.compagniaitalianalubrificanti.com) - e-mail: [cil@compagniaitalianalubrificanti.it](mailto:cil@compagniaitalianalubrificanti.it)

AZIENDA CON SISTEMA  
DI GESTIONE QUALITA'  
CERTIFICATO  
DA CERTIQUALITY  
UNI EN ISO 9001:2008