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Petroleum Products

Miscellaneous Petroleum Products  P. 45-1 ~ 2	Grease  P. 45-2 ~ 7	Molybdenum Disulfide Lubricant Products  P. 45-7 ~ 8
Molykote Products  P. 45-8 ~ 9	Tank Compounds P. 45-9	Anti-seize Compound  P. 45-9 ~ 10
Molyslip Products  P. 45-10	Anti-Seize Lubricants  P. 45-10 ~ 12	Aerosol Lubricants  P. 45-12 ~ 18
Silicone Grease/Compounds  P. 45-18	Pipe Dressing  P. 45-18	Charcoal  P. 45-18

Gasoline

(Petrol)

Gasolina ガソリン 汽油

Regular car gasoline which can be used to fuel torches, lifeboat and machinery engines, or can be used for cleaning paint and other general purposes.

45 01 01	Gasoline,	4 ltr	Can
02	"	18 ltr	"
03	"	200 ltr	Drum



Kerosene

(Paraffin Oil)

Keroseno 白灯油 一煤油

Regular kerosene for use with stoves, torches, or as a paint thinner or cleaning agent for machinery parts or tools. Supplied in containers of 4 or 18 ltr, or in 200 ltr drums.

45 01 06	Kerosene,	4 ltr	Can
07	"	18 ltr	"
08	"	200 ltr	Drum



Diesel Oil

(Gas Oil/Light Engine Oil)

Diesel 軽油 柴油

A light engine oil or gas oil for use in diesel engines, generators, or for cleaning machinery and parts.

45 01 11	Diesel oil,	4 ltr	Can
12	"	18 ltr	"
13	"	200 ltr	Drum



Cutting Oil

Aeite para Corte 切削油 切削油

Quality special purpose oil that cools, speeds metal removal, produces smooth, clean threads, and prevents chips from welding to dies. Will not become rancid and is excellent for drilling, turning, and other cutting operations. Can be used to prolong the life of handtools or power tools.

Non-water soluble type for finishing will be supplied unless specified otherwise. Water soluble oil is also available upon request.

45 01 15	Cutting oil, spray, 350 ml	Can
16	Cutting oil, non-water soluble, 4 ltr	"
17	Cutting oil, non-water soluble, 18 ltr	"

Penetrating Oil

Aceite Penetrante 浸透油 渗透(润滑)油

1. A rapid penetrating and rust solvent for removing rusty nuts and for piping repair jobs.
2. A practical, all-purpose oil used as an additive to engine lubricating oil and fuel.
3. For use in wire cable treatment.

45 01 21	Penetrating oil	4 ltr	Can
22	"	18 ltr	"

White Spirit

(White Gasoline)

Aguarrás ホワイトスピリット 石油溶剤油(无铅汽油)

Commonly known as white gasoline, used as a high quality paint thinner. Furnished in containers of 4 ltr, 18 ltr, or 200 ltr large drums.

45 01 26	White spirit	4 ltr	Can
27	"	18 ltr	"
28	"	200 ltr	Drum



Rust Preventives

Desoxidante 防鏽油 防锈剂(油)

For preventing parts, machinery, or tanks from rusting. Displaces and seals out moisture with a dry transparent coating. Products from a variety of global manufacturers are listed in the order table below. To order, **select the code number for Rust Preventives and indicate the brand you require separately.**

CODE	Brand	Product	Unit
45 02 11	ENEOS	Antirust Terami LS-PH	20 ltr/Can
45 02 16	Mobil	Mobilarma 778	20 ltr/Drum
17		Mobilarma 798	20 ltr/Drum
18		Mobilarma 245	250 ltr/Can
	B.P./Castrol	Rustilo DW 330	litr
45 02 20	Chevron/Caltex	Rustproof Compound L	18 kg/can

Hydraulic Fluid

Líquido Hidráulico/Líquido para Aparatos Hidráulicos

油压作動油 液压机液体

Suitable for use as a lubricant for high speed hydraulic tool machines. Oils of viscosity grade 5 - 10 are known as spindle oils which resist emulsion, sludge formation, oxidation, and foaming. When ordering from the table below, **select a code for the grade of oil which you require. Along with the code number, please specify the brand which you require.**

Unit Per Ltr			
CODE	45 02 21	45 02 22	45 02 23
Grade	15.5 mm ² /s	32.5 mm ² /s	46.7 mm ² /s
Shell	Tellus S2 VX 15	Tellus S2 VX 32	45 02 36 Tellus S2 VX 46 (20 ltr)
Mobil	45 02 54 Mobil DTE 10, Excel 15, (20 ltr)	45 02 55 Mobil DTE10, Excel 32, (20 ltr)	Mobil DTE 10 Excel 46
ENEOS	Super Hyrando 22	Super Hyrando 32	Super Hyrando 46
B.P./ Castrol	Bartran HV 15 or Castrol Hyspin AWS 22	Bartran HV 32 or Castrol Hyspin AWS 32	Bartran HV 46 or Castrol Hyspin AWS 46
Chevron/ Caltex	-	Chevron Hydraulic Oil AW 32 or Clarity Hydraulic Oils AW 32	Chevron Hydraulic Oil AW 46 or Clarity Hydraulic Oils AW 46

(to be continued)

	Unit Per Ltr		
CODE	45 02 24	45 02 25	45 02 26
Grade	68.5 mm ² /s	102 mm ² /s	153 mm ² /s
Shell	Tellus S2 VX 68	Tellus S2 VX 100	-
Mobil	Mobil DTE 10 Excel 68	Mobil DTE 10 Excel 100	Mobil DTE 10 Excel 150
ENEOS	Super Hyrando 68	Super Hyrando 100	Super Hyrando 150
B.P./ Castrol	Bartran HV 68 or Castrol Hyspin AWS 68	Bartran HV 100 or Castrol Hyspin AWS 100	Bartran HV 150 or Castrol Hyspin AWS 150
Chevron/ Caltex	Chevron AW 68 or Clarity AW 68	Clarity AW 100	-

Hydraulic Fluids — Viscosity mm²/s at 40°C

Refrigerating Machine Oil

Aceite para Máquina Refrigerante 冷凍機油 制冷机油

Oil for the lubrication of bearings and crankshaft of the compressor setup for cargo refrigeration systems. These lubricants have the correct viscosity, film strength and stability, both chemical and thermal for the operating conditions. The oils are compatible with refrigerants. Straight mineral elements with additives to prevent foaming and inhibit against chemical action with refrigerants and system metals. When ordering, **select a code number for the appropriate grade of oil and indicate the brand require.**

	Unit Per Ltr		
CODE	45 02 75	45 02 76	45 02 77
Grade	30.4 mm ² /s	49.2 mm ² /s	64.0 mm ² /s
Shell	45 02 61 S4 FR-F 32, (20 ltr)	-	45 02 63 S4 FR-F 68, (20 ltr)
Mobil	45 02 71 Gargoyle Arctic 155 (20 ltr) or 45 02 78 EAL Arctic 32 (20 ltr)	45 02 72 Gargoyle Arctic C Heavy (20 ltr) or 45 02 79 EAL Arctic 46 (20 ltr)	Gargoyle Arctic 300 (20 ltr) or 45 02 80 EAL Arctic 68 (20 ltr)
ENEOS	45 02 66 Atmos 32(N) (20 ltr)	Atmos 46(N)	Atmos 68(N)
B.P./ Castrol	Energol LPT 32 or Aircol LPT 32	Energol LPT 46 or Aircol LPT 46	Energol LPT 68 or Aircol LPT 68
Chevron/ Caltex	Capella Oil WF 32	-	Capella Oil WF 68

Machine Oil

Aceite para Máquina マシンオイル 机械油

Viscosity grade 46 or 56 machine oils suitable for use as a general industrial lubricant. Available in various sized containers. Please specify the volume required when ordering.

45 03 01	Machine Oil	100 ml	Can
02	"	1 ltr	"
03	"	18 ltr	"

Note: VG (Viscosity Grade) 5 ~ 10 - Spindle Oil
 VG (Viscosity Grade) 46 ~ 56 - Machine Oil
 VG (Viscosity Grade) 150 and over - Gear Oil

Liquid Paraffin

(White Oil)

Aceite Mineral (Parafina Líquida)

流動パラフィン (精密機械油) 液体石蜡

So-called white oil or sewing machine oil suitable for precision machine lubricants. Specify size of container.

45 03 11	Liquid paraffin	500 cc	Can
12	"	100 cc	"
13	"	280 cc	"
14	"	4 ltr	"

Brake Fluid

Líquido para Frenos ブレーキ油 制动液

For hydraulic break and clutch systems requiring heavy duty synthetic hydraulic fluids.

45 03 16	Brake fluid,	500 cc	Can
17	"	1 ltr	"
18	"	4 ltr	"

Anti-freeze Liquid

Líquido Anti-congelante 不凍液 防冻液

Liquid additives for lowering the freezing point of oil.

	Unit Per Can		
CODE	Contents	CODE	Contents
45 03 25	4 ltr	45 03 26	18 ltr

Turpentine

Trementina ターベンタイン (テレピン油) 沥青

For thinning paints, varnishes. Available in 4 and 18 ltr containers or 200 ltr drums.

25 14 61	Turpentine,	4 ltr	Can
62	"	18 ltr	"
63	"	200 ltr	Drum

Fish Oil

Aceite de Pescado 魚油 鱼油

Oil compound for cleaning and preserving decks, scaling down rust, and slushing wire rope, anchor chains and other deck equipment. Furnished in 18 ltr square cans or 200 ltr drums.

25 14 66	Fish Oil	18 ltr	Can
67	"	200 ltr	Drum

Multipurpose Grease

Grasa Multi-usos 万能グリース 多功能黄油

For the lubrication and protection of almost all kinds of gears and a variety of other uses. Listed below are some products from a variety of global manufacturers. Select the grade and brand of grease that you require from the table below. When ordering, **select a code number for the appropriate grade and specify the required brand.**

Unit Per Kgs.			
CODE	45 01 55	45 01 56	45 01 57
Grade	NLGI No. 1	NLGI No. 2	NLGI No. 3
Shell	45 01 41 Gadus S2 V100 1 (16 kg)	45 01 42 Gadus S2 V100 2 (16 kg)	45 01 43 Gadus S2 V100 3 (16 kg)
Mobil	Mobilux EP1	Mobilux EP2 (18 kg)	Mobilux EP3
ENEOS	45 01 46 Toughlix Grease MP1 (16 kg)	45 01 47 Toughlix Grease MP2 (16 kg)	-
B.P.	Energrease LS-EP 1	Energrease LS-EP 2	Energrease LS-EP 3
Chevron/ Caltex	-	Marfak Multipurpose 2	Marfak Multipurpose 3

Note: NLGI denotes National Lubricating Grease Institute (U.S.A.)

Extreme Pressure Grease

Grasa de Presión Extrema 極圧万能グリース (耐) 特压润滑脂

Lithium based, multipurpose grease with corrosion and oxidation inhibitors and an extreme pressure additive. Similar products are listed below from a variety of global manufacturers. Products from other manufacturers may be available upon request. When ordering, **select a code number for the appropriate grade and specify the brand required.**

Unit Per Kgs.			
CODE	45 01 75	45 01 76	45 01 77
Grade	NLGI 0	NLGI 1	NLGI 3
Shell	45 01 61 Gadus S2 V220 1 (16 kg)	45 01 62 Gadus S2 V220 2 (16 kg)	45 01 63 Gadus S2 V220 3 (16 kg)
Mobil	Mobilux EP-0	45 01 71 Mobilux EP-1 (16 kg)	45 01 72 Mobilux EP 3 (16 kg)
ENEOS	45 01 66 Epnoc Grease AP(N)0 (16 kg)	45 01 67 Epnoc Grease AP(N)1 (16 kg)	45 01 68 Epnoc Grease AP(N)3 (16 kg)
B.P.	Energrease SY 4600	Energrease SY-1501	-
Chevron	Multifak EP0	Multifak EP1	-

Note: NLGI denotes National Lubricating Grease Institute (U.S.A.)

Gear Grease

Grasa para Engranajes ギア・グリース 齿轮润滑脂

High-viscosity, residual type lubricants recommended principally for open gears and other applications where an adhesive product is required, e.g. wire rope. A variety of products are listed in the order table below. When ordering, **select a code number for the appropriate grade and specify the brand required.**

Unit Per Kgs.			
CODE	45 01 94	45 01 95	45 01 96
Grade	NLGI No. 0	NLGI No. 1	NLGI No. 2
Shell	Gadus S2 OGH 0	-	-
Mobil		Mobiltaic MM	Mobiltaic QQ
Chevron	Open Gear Grease	-	-
Caltex	Crater 2X	-	-

Note: NLGI denotes National Lubricating Grease Institute (U.S.A.)

Low Temperature Grease

Grasa para Baja Temperatura 低温グリース 低温润滑剂

Antifreeze grease suitable for ball and roller bearings and especially sealed bearings for use in very low temperatures. Supplied in 16 kg cans. Please specify the maker and the product name which you require.

45 03 21	Grease, low temperature 16 kg	Can
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Cup Grease

Grasa (Gruesa) para Copa de Engrase カップグリース 粘稠润滑油

A thick grease used for the lubrication of couplings, shafts, and gears which operate at low speed revolution. This product is not recommended for use with high load gears or in high temperature environments. Supplied in 2.5 or 16 kg cans with a spring shaft dispenser.

45 03 31 32	Grease, cup, 2.5 kg " 16 kg	Can "
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Bearing Grease

Grasa para Rodamientos ベアリンググリース 轴承润滑脂

Smooth, non-fibrous grease with high oil content to assure lubrication and smooth starting and running torque. Suitable for general service and has a high resistance to moisture. Furnished in 2.5 and 16 kg cans.

45 03 36 37	Grease, bearing, 2.5 kg " 16 kg	Can "
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Wire Rope Grease

Grasa para Cables de Acero ワイヤーグリース 钢索润滑脂

A non-gumming, anticorrosive petroleum lubricant which will penetrate inside of wire rope to prevent corrosion from fresh water, salt water, and other elements.

45 03 41	Grease, wire rope, 16 kg	Can
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Biodegradable Products (EAL)

Compliance of US EPA VGP 2013/VIDA

Productos Biodegradables (EAL)

Cumplimiento de US EPA VGP 2013/VIDA

生分解性グリース・潤滑油 (VGP2013/VIDA 適合)

生物降解润滑脂和润滑剂 (符合 VGP2013/VIDA 标准)

U.S. Environmental Protection Agency (EPA) issued the Vessel General Permit (VGP), with an effective date of 19th December, 2013, and will officially implement VIDA (Vessel Incidental Discharge Act) which was signed on December, 2018. Under the VIDA, EPA will work together closely with USCG to develop the standards and regulations for incidental discharges, primarily from commercial vessels. VIDA will apply to non-recreational, non-armed forces vessels that are 79 feet in length and above, and apply in waters of the US, extending out 12 miles from shore. Currently VGP 2013 is still in effect until VIDA will be officially implemented.

VGP 2013 continues to require that all vessels must use environmentally acceptable lubricants (EALs) in all oil-to-sea interfaces (stern tubes, thrusters, controllable pitch propeller,

rudder stocks and pintle bearing), unless technically infeasible.

In VIDA, oil-to-sea interfaces fall under "Oil Management" in General Standards and have been covered in great detail. In addition to those described interfaces in VGP, interfaces will be from any equipment seals or surfaces where the design is such that small quantities of oil can escape into the surrounding sea during normal vessel operations, which will include on-deck equipment such as hose handling, cranes, hydraulic system provision cranes, hydraulic cranes, and hydraulic stern ramps.

Although the guidance regarding equivalent overseas programs that certify biodegradable lubricants will be removed, it is expected that manufacturers will continue to provide EALs that they certify to be biodegradable, minimally-toxic and non-bioaccumulative.

Please see the definition of terms in VGP 2013 Appendix A.

Appendix A- Definitions

"Biodegradable" means the following for purposes of the VGP:

- Regarding environmentally acceptable lubricants and greases, biodegradable means lubricant formulations that contain at least 90% (w/w (weight in weight concentration)) or grease formulations that contain at least 75% (w/w) of a constituent substance or constituent substances (only stated substances present above 0.10% shall be assessed) that each demonstrate either the removal of at least 70 percent of dissolved organic carbon, production of at least 60 percent of the theoretical carbon dioxide, or consumption of at least 60 percent of the theoretical oxygen demand within 28 days. Acceptable test methods include : Organization for Economic Co-operation and Development Test Guidelines 301 A-F, 306, and 310, ASTM 5864, ASTM D-7373, OCSPP Harmonized Guideline 835.3110, and International Organization for Standardization 14593:1999. For lubricant formulations, the 10% (w/w) of the formulation that need not meet the above biodegradability requirements, up to 5% (w/w) may be nonbiodegradable (but not bioaccumulative) while the remainder must be inherently biodegradable. For grease formulations, the 25% (w/w) of the formulation that need not meet the above biodegradability requirement, the constituent substances may be either inherently biodegradable or non-biodegradable, but may not be bioaccumulative. Acceptable test methods to demonstrate inherent biodegradability include: OECD Test Guidelines 302C (>70% biodegradation after 28 days) or OECD Test Guidelines 301 A-F (>20% but <60% biodegradation after 28 days).

- Regarding cleaning products, biodegradable means products that demonstrate either the removal of at least 70 percent of dissolved organic carbon, production of at least 60 percent of the theoretical carbon dioxide, or consumption of at least 60 percent of the theoretical oxygen demand within 28 days. Acceptable test methods include: Organization for Economic Co-operation and Development Test Guidelines 301 A-F, 306, and 310, and International Organization for Standardization 14593:1999.

Biodegradable Multi-Purpose Grease

Grasa biodegradable multiusos

生分解性汎用グリース

生物可降解多用途润滑脂

Heavy duty and multi-purpose grease containing proprietary EP additive to combat against seizing, galling of bearings and rust. It protects bearings wear through outstanding film strength under severe conditions of shock loading. Resists water wash-out from bearings under the most arduous conditions and provides long service life through high oxidation resistance.



NLGI Grade: 2, EAL and EPA / VGP Compliance product.

45 01 60	Multi-Purpose Grease, Biodegradable, 450 grm per can(24 cans per carton)	C/T
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Biodegradable Wire Rope Grease

Grasa biodegradable de cable de acero

生分解性ワイヤーロープグリース

生物可降解钢丝绳润滑脂



A wire rope conditioner & lubricant that exhibits excellent lubrication and anti-corrosion properties. Specially developed as environmentally friendly biodegradable grease as VGP compliance, minimally toxic and non-bioaccumulative. It is used whenever protection against rust and/or lubrication is needed: Wire ropes, Crane wires, Winches, Mooring wires, Lifeboat-davits falls, Derricks, Open gears shackles, Backsprings, Tankcover-screws, Hoists, Lashings, Hatch-cover wheels, Valves, Bearings, Screws & bolts, etc.

Unit Per Can

CODE	Contents ltr	CODE	Contents ltr
45 03 42	20	45 03 43	200

Environmentally Acceptable Lubricants (EAL)

Lubricantes ecológicos 生分解性潤滑油 生物可降解润滑油

High performance, specially developed rapidly biodegradable lubricants for use in all oil-to-sea interferences such as stern tubes, thrusters and rudder systems, pitch propeller etc. There are many brands of EAL available as VGP compliance, but adoption of EAL will depend on the approval by each machinery manufacturer.

Please make sure to specify the EAL brand which is accepted by machinery maker when ordering.

Unit Per Ltr

CODE	Description	Application
45 03 45	Stern Tube Oil	For Stern Tube Seal
48	Wire Rope Oil	For mooring wire, deck crane wire, cables, drive and conveyor chains
49	Hydraulic Oil	For hydraulic systems, bow thrusters and rudder systems, winches and hydraulic pitch adjusters
50	Gear Oil	For gear boxes, roller bearings and slide bearings

**Comparison Table of Biodegradable Grease (EAL)
(Compliance of US EPA Vessel General Permit 2013)**

Application \ Maker	Teho Rope (Singapore)	Panolin (Swiss)	LUKOIL	Shell
Wire Rope Grease CODE 45 03 42 (20 ltr)	Biolubri Greasekote 100 A canola based wire rope conditioner and lubricant providing excellent lubrication and rust protection. It meets requirements according to Swedish Standard SS 155470. Biodegradability is >60% within 28 days according to OECD 301B. Viscosity NLGI Grade: 2	BIOGREASE LL EP2 Lithium soap based synthetic multipurpose grease, ultimately biodegradable, good mechanical stability, high oxidation stability, good anti-wear and anti-corrosion behavior. Biodegradability is >60% within 28 days according to OECD 301B. KPE 2 K-30 in DIN 51'502 standard	PLANTOGEL 2S Synthetic Ester based grease, excellent performance on wire ropes. NLGI Grade 2, approved DIN 51 502:KPE 2 K-40 OG2 K-40	Naturelle S2 Lubricant A Formulated with renewable base fluids and contains a select blend of additives for corrosion resistance and high load carrying performance. High resistance to water wash off. Biodegradability is >60% within 28 days according to OECD 301B.
			NAVIGREASE BIO 2 Lithium thicker and synthetic ester based grease, suitable for wide range of deck and engine applications. NLGI Grade 2, approved DIN 51 502:KPE 2 K-30 OG2 K-30	

**Comparison Table of Biodegradable Oil
(Compliance of US EPA Vessel General Permit 2013)**

Description \ Maker	Panolin(Swiss)	LUKOIL	SHELL	Exxon Mobil
Stern Tube Seals CODE 45 03 45	Brand	Stella Maris 100	PLANTOGEAR 100S	Naturelle S4
	Base Oil	Fully Saturated Synthetic Ester	Fully Saturated Synthetic Ester	Fully Saturated Ester
	Biodegradability (OECD 301B)	> 60%	-	> 60%
	Viscosity	96.5 mm ² /s (40°C)	94 mm ² /s (40°C)	137 (ISO2909)
	Standard	ABS/ European Eco-Label-Category 3	EU Eco-Label, DIN51 517-3(CL), ISO12925-1: CKC/CKD/CKE .	ISO 3448 VG100 Ecolabel license DE/027/134
Wire Rope Oil CODE 45 03 48	Brand	Biotrack E	-	-
	Base Oil	ECL(Environmentally Considerate Lubricant)	-	-
	Biodegradability (OECD 301B)	> 60%	-	-
	Viscosity	-	-	-
	Standard	-	-	-
Hydraulic Oil CODE 45 03 49	Brand	HLP Synth 46	PLANTOSYN HVI	Naturelle HF-E46
	Base Oil	Fully Saturated Synthetic ester basis with special additives	Fully Saturated Synthetic Ester	Unsaturated Ester
	Biodegradability (OECD 301B)	> 60%	> 60%	> 60%
	Viscosity	46.7 mm ² /s (40°C)	148 (DIN ISO2909)	188 (ISO2909)
	Standard	ABS/German Blue Angel	EU Eco-label, DIN 51 517-3(CL), ISO12925-1: CKC/CKD/CKE	EU Eco-label, Swedish Standard SS 15 54 34, SP listed. ISO 15380 HEES

Description	Maker	Panolin(Swiss)	LUKOIL	SHELL	Exxon Mobil
Gear Oil CODE 45 03 50	Brand	EP Gear Synth 100	PLANTOGEAR 100S	Naturelle S4 Gear Fluid	Mobil SHC Aware Gear 100
	Base Oil	Fully Saturated Synthetic high performance Oil	Fully Saturated Synthetic Ester	Fully Saturated Ester	-
	Biodegradability (OECD 301B)	> 60%	-	> 60%	84% (OECD301 B)
	Viscosity	100 mm ² (40°C)	94 mm ² (40°C)	Grade 68, 100, 150	100
	Standard	DIN 51517/CLP, FZG Test A 16.6/140 load stage 12	EU Eco-Label, DIN51 517-3(CL), ISO12925-1:CKC/CKD/CKE	DIN 51517/3 CLP-E, pass the FZG load test above load stage 13 according to ISO 14635 A20	US EPA 2013 VGP, AGMA 9005-E02-EP, ISO 12925-1 1996, ISO-L-CKC, ISO 12925-1 1996, ISO-L-CKD

Remark: The adoption of biodegradable Oil is determined by approval of each machinery manufacturers. Please make sure the types of oil approved by each machinery manufacturer when ordering.

Graphite Grease

Geasa Grafitada グラファイトグリース 石墨润滑脂

A grease with the adhesive consistency particularly suitable for use on machine gears and bearings which are exposed to weather elements or high temperatures. This grease is also effective for lubricating and preserving wire rope.

45 03 46 47	Grease, graphite "	2.5 kg 16 kg	Can "
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Asphalt Compounds

Compuestos asfálticos アスファルト 沥青混合料

Asphalt often used as a protective, waterproof coating on deck. When dry this asphalt has a non-slip, glossy black surface. Supplied in 18 kg cans.

45 03 51	Asphalt compound, 18 kg	Can
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Coal Tar

Alquitán de Hulla, Brea Mineral ユールタール 煤焦油

Used as a protective coating on deck for the prevention of rust and for the waterproofing of pipes and other fixtures. Supplied in 16 kg cans.

45 03 56	Coal tar, 16 kg	Can
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Pitch

Brea ピッチ 沥青

Black bituminous putty which bonds to any material surface, wood, metal, brick, concrete, glass, etc. Contained in 18 kg square cans.

45 03 61	Pitch, 18 kg	Can
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Tallow

Sebo 牛脂 牛脂

A grease derived from cow fat which has a thick consistency. Used for lubricating, wire rigging, etc.

45 03 71	Tallow, 16 kg	Can
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Ferryl Anticorrosive Grease

Grasa Anti-corrosiva Ferryl フェリルグリース

铁器防腐蚀油



The Ferryl anticorrosive product range relies on chemical properties for the best possible results in rust prevention and lubrication. The special rust-inhibitors in the Ferryl greases, oils and coatings enable long-lasting rust protection at a low cost.

Ferryl 202 Standard Anticorrosive Grease features excellent penetration and lubrication, a high melting point, and special adhesive properties due to its rubberised binders and semi-drying film, such that the grease is resistant to high winds and seawater. The grease is excellent for all running gear and wires, crane wires, mooring wires, lifeboat falls, back springs, inside bearings on hatch cover wheels, valves, shackles, spring wire, screws, and bolts.

The Ferryl product range is provided in the order table below.

CODE	Product No./Unit	Application
45 04 01	Ferryl 101 Anticorrosive Oil 25 ltr/drum	Rust-protection and lubrication of wire ropes. Oil with enhanced penetration into wire. Specially designed for cold-climate use and fast-moving wires. Can be mixed with Ferryl 202 Standard Anticorrosive Grease.
45 04 02	Ferryl 103 Anticorrosive Drying Oil 25 ltr/drum	Drying oil. Forms water resistance film for short or long-term rust protection of metal (spare parts, machine parts, chains, propeller shafts).
45 04 03	Ferryl 202 Standard Anticorrosive Grease 25 kg/drum	Rust-protection and lubrication of wire ropes. Properties: penetration into wire, high melting point (70°C), rust inhibition, adhesion (binds to wire), semi-drying film, lubrication. For use in all climates.
45 04 04	Ferryl 202 S Anticorrosive Grease 25 kg/drum	Rust-protection and lubrication of wire ropes. Properties: penetration into wire, high melting point (80°C), rust inhibition, adhesion (binds to wire), semi-drying film, lubrication. For use in all climates.

(to be continued)

CODE	Product No./Unit	Application
45 04 05	Ferry 202 White Anticorrosive Grease 30 kg/drum	Rust-protection and lubrication of wire ropes. White in colour. Properties: penetration into wire, high melting point (100°C), rust inhibition, adhesion (binds to wire), semi-drying film, lubrication. For use in all climates.
45 04 06	Ferry 202 Aluminium Anticorrosive Grease 30 kg/drum	Rust-protection and lubrication of hatchcover rails, crane rails, container lashings, tank cover screws & bolts. Aluminium-coloured, non-cracking 'grease paint' with excellent coverage and sea-water resistance.
45 04 11	Ferry 400R Anticorrosive White Coating 12 kg/drum (See sec 25)	One-component product applied like paint. Flexible, non-cracking plastic-like coating. Used on non-rotating wires, standing rigging, rubber insulated electrical cables and (hydraulic) hoses.
45 04 12	Ferry 401 Anticorrosive Transparent Coating 1 kg/tin (See Sec 25)	One-component product applied like paint. Flexible, non-cracking, plastic-like coating. For preservation of metals' original colour (steel, brass, bronze, copper). Also used as a wood varnish.
45 04 13	Ferry 404 Dilution & Cleaning Liquid 10 ltr/drum (See Sec 25)	Solvent for cleaning and dilution of the Ferry coatings. Used as a general thinner.
45 04 17	Ferry 502 Anticorrosive Fluorescent Coating 1 kg/tin (See Sec 25)	One-component product applied like paint. Fluorescent orange-red colour. Flexible, non-cracking, plastic-like coating. Used for safety applications. (life-saving equipment, warnings, bridge, low beams / steps).
45 04 15	Ferry 505 Anticorrosive Fluorescent Coating 1 kg/tin (See Sec 25)	One-component product applied like paint. Fluorescent yellow colour. Flexible, non-cracking, plastic-like coating. Used for high visibility marking applications (stairs, walkways, zone markings).
45 04 19	Ferry Armacit Pipe Sealant 150 grm/tube (See Sec 81)	Paste-like packing that dries hard for permanent sealing of threaded pipes and flanges. Resistant to oil, petrol, most gases. Temperature and pressure-resistant.
45 04 20 22	Ferry Rustoil Penetrating Oil 450 ml/spray can 10 ltr/drum	Pre-treatment of wire ropes: penetrates into core of wires to remove rust and moisture. Releases rust and hardened grease/oil from bolts, flanges, machine parts.
45 04 23	Ferrycid Rustremover 25 ltr/drum (See Sec 55)	Efficient removal of light and heavy rust on steel, cleaning of (wooden) decks, rust stain removal on painted surfaces, removal of limescale and cement.
45 04 24	Ferry Cleaning Fluid Oil & Grease Remover 25 ltr/drum (See Sec 55)	Water-soluble, emulsifying, solvent-based degreaser. Removes light and heavy deposits of oil and grease on decks, engine parts, oil preheaters, tools.
45 04 26 32	Ferry Fermaid Alkaline Cleaning Liquid 25 ltr/drum 1 ltr/bottle (See Sec 55)	Alkaline cleaning liquid concentrate for general cleaning and light degreasing of decks, containers/chambers, refrigerators, fishing vessels.

(to be continued)

45 04 28 27	Ferry Electroclean 450 ml/spray can 25 ltr/drum (See Sec 55)	Safe cleaning liquid with a high flash point and quick evaporation for cleaning of electrical equipment and machine parts.
45 04 29	Ferry Cabin Clean General Cleaning Liquid 25 ltr/drum (See Sec 55)	Cleaning liquid concentrate for general cleaning of cabins, mess rooms, bathrooms, sanitary installations.
45 04 30 31	Ferry Air refreshment Bad Odour Neutraliser 500 ml/spray bottle 25 ltr/drum (See Sec 55)	Chemically neutralises bacteria in the air, removing bad odour, leaving fresh scent. For cabins, bathrooms, cargo holds, freezers, fishing vessels.

Name of Mfr.: Ferry Sales Limited.

Weicon Allround Lubricant

Lubricante multiusos Weicon

ウェイコン潤滑剤 WEICON 润滑剂



CODE	Name	Description	Content
45 04 35	AL-M 400K	Strong bonding and high pressure resistant long-life grease. Classification according to DIN 51 502: KF 2K-20	Cartridge 400 grm
	36 AL-M 1000		1 kg/Tin
37	AL-W 400 K	Special lubricant and corrosion protection, also for underwater applications. Classification according to DIN51 502: KPL 1-E-25.	Cartridge 400 grm
	38 AL-W 1000	Effective protection against aggressive liquids (e.g. salt water, sewage water) in maritime environments and in wet plants.	1 kg/Tin
39	AL-H 400K	Odourless and tasteless high-temperature grease for the foodstuffs technology. Classification according to DIN 51 502: KP HC 1P-40 NSF registered, NSF H1 LMBG Section 31 and Section 21	Cartridge 400 grm
40	AL-H 1000		1 kg/Tin
41	AL-F 350	Allround high performance grease for lubricating roller and sliding bearings and for all grease lubrication points, also in the foodstuffs industry. Classification according to DIN 51 502: KLF 2K -20. NSF registered, NSF H2; LMBG Section 31 and Section 5.	350 grm /Tin
42	AL-F 400 K		Cartridge 400 grm
43	AL-F 1000		1 kg/Tin
45 04 44	AL-T 400 K	Allround high-temperature grease for long-life lubrication. Classification acc. to DIN 51 502: KPL 2 R-20. Temperature resistance: -25°C to +190°C (briefly +200°C)	Cartridge 400 grm
45	AL-T 1000		1 kg/Tin

Name of Mfr. : Weicon GmbH & Co. KG

Molybdenum Disulfide Lubricant Products

Productos Lubricantes de Sulfuro de Molibdeno

住鉱潤滑剤 二硫化鉬潤滑剂产品



Recommended for the lubrication of machinery parts during assembly.

For operational applications involving low speed at a heavy load capacity more MoS₂ is required than for light load operations at high speed. MoS₂ is also an effective lubricant for machinery operating at high or low temperatures. Many examples for use are available. MoS₂ is also quite effective as a lubricant restoring material for overheated machines.

To meet various applications and conditions, various types of products are available. The most common oil, grease, and aerosol products are listed below. When ordering, please specify the item and container size required.

Unit Per Can

CODE	Item	Size	Application
Anti-Seizure paste for Metal			
45 04 51	Moly Paste 500 No. 2	500 grm	An anti-seizure paste formulated with a high concentration of molybdenum disulfide (MoS ₂). Positioned as the standard product in the series.
52		16 kg	

Durable Grease

45 04 61	Molyspeed Grease No. 2	2.5 kg	A Bentonite grease formulated with molybdenum disulfide (MoS ₂) that has excellent wear resistance and anti-seizure properties. Can withstand momentary exposure to high temperature up to 230°C.
62		16 kg	
45 04 63	Molytone Grease No. 2	2.5 kg	A variant of Moly Speed Grease formulated with a high concentration of molybdenum disulfide (MoS ₂). It excels in wear resistance.
64		16 kg	
45 04 65	Moly PS Grease No. 2	2.5 kg	A Bentonite grease with a further enhanced anti-seizure property over Moly Speed Grease, made possible by the addition of an extreme pressure agent.
66		16 kg	

Heat Resistant Grease

45 04 71	Molytherm No. 2	2.5 kg	An inorganic grease formulated with a high concentration of molybdenum disulfide (MoS ₂) that has excellent wear resistance and anti-seizure properties.
72		16 kg	Its excellent heat resistance enables it to tolerate momentary exposure to high temperature up to 290°C.

(to be continued)

45 04 73	Hi-Moly Grease	2.5 kg	An inorganic grease formulated with molybdenum disulfide (MoS ₂) and graphite. Switches to solid film lubrication at high temperature courtesy of its low-residue synthetic base oil.
74		15 kg	

Lithium Soap Greases for Heavy Load

45 04 81	Moly LG Grease No. 2	2.5 kg	A lithium soap grease formulated with a high concentration of molybdenum sulfide (MoS ₂). Has exceptional wear resistance and anti-seizure properties. Ideal for heavy-duty bearings, sliding parts and gears.
82		16 kg	
83	Cartridge Moly LG Grease No. 2	400 g/tube	

Open Gear Grease

45 04 86	Moly Gear Compound 900	2.5 kg	Gear compounds containing molybdenum disulfide (MoS ₂). Produce a semi-dry film with superior lubricity under heavy loads.
87		16 kg	

Wire Rope Grease

45 04 89	Moly Rope Dresser No. 0	2.5 kg	A Bentonite grease containing molybdenum disulfide ((MoS ₂)). Capable of penetrating deep into a wire rope to reduce inter-wire friction and prevent eccentric deformation and corrosion. Hardening and breaking off under low temperature conditions also reduced.
90		16 kg	

Open Gear Grease Spray

45 04 88	Moly Gear 1500 Spray	420 ml/tin	Ideal for open gears. Produces a semi-dry film excellent in shear stability with regard to tooth faces.
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Wire Rope Grease Spray

45 04 91	Moly Rope Spray	420 ml/tin	Designed for wire ropes. Reduces wear and prevents eccentric deformation and corrosion by penetrating deep into inter-wire spaces.
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Name of Mfr. Sumico

Molykote Products

Productos de Molykote モリコート製品
Molykote モリコート



To lubricate and prevent the seizing of machine parts during repair or reassembly. Product types for a variety of applications are listed below. When ordering, please specify the product type and the container size required.

CODE	Type	Contents per Can	Description
Powder			
45 05 01	Z	1 kg	Can be used as run-in aid, in press-fittings, in heavy loads and slow speeds applications.
04	Micro size	0.5 kg	
05		2 kg	

(to be continued)

Unit Per Can			
CODE	Type	Contents per Can	Description
Paste			
45 05 11	G-n	0.5 kg	Multi-purpose Assembly paste can be used at high loads and low speed application, screw, press-fit, slides and metal working.
12		1 kg	
13		5 kg	
45 05 14	G-Rapid Spray	330 ml (aerosol)	Multi-purpose molybdenum disulfide spray lubricant for preventing mechanical failures, fretting corrosion, seizure. Easy application for all running-in ns assembly.
45 05 15	U	0.5 kg	High temperature paste does not develop oil ash, suitable for screws and sliding parts, and assembly. Better compatibility with rubber can be used for O-ring lubrication.
16		2 kg	
45 05 18	M-77	0.5 kg	Suitable for assembling and lubricating plastics and rubber parts. The silicone paste can be used for wide service temperature.
19		2 kg	
45 05 20	1000	300 ml (Aerosol)	Suitable for fasteners, bolts and nuts that are subjected to high temperatures up to 650°C (1,202°F) and to corrosive effects.
21		1 kg	
22		5 kg	
45 05 23	P-37	500 grm	Lubricant paste for screws, nuts and bolts that are subjected to extremely high temperatures (1,400°C).
Grease			
45 05 26	BR-2 Plus	1 kg	Used successfully on roller bearings, plain bearings, sliding guides, roller guides, ball-and-socket joints, splined shafts and threaded spindles.
27		16 kg	
45 05 51	111 Compound	150 grm	Seal grease for vacuum and pressure systems and outdoor equipment, subject to water washing and harsh environmental exposure.
53		5 kg	
45 05 54	6169	1 kg	Fluorinated grease for use in valves and other components under low temperatures to high temperatures, corrosive, solvent, liquefied natural gasses, high vacuum, etc.
45 05 56	HP-870	100 grm	Fluorinated grease for harsh condition, high temperatures, corrosive, solvent, liquefied natural gasses, high vacuum, etc.
57		750 grm	
45 05 40	HP-300	100 grm	Fluorinated grease for harsh condition, high temperatures. Used for low to medium pressure Hydrogen valve
45 05 49		500 grm	
45 05 50	55M	5 kg	Silicone grease for Pneumatic system O-ring and Valves.
Lubricant			
45 05 31	Supergliss	300 ml (Aerosol)	Quick penetration even in areas difficult to access, loosens rusted screw connections as well as other components, thus facilitating disassembly.

(to be continued)

45 05 34	M	1 ltr	Micro MoS ₂ gear oil additive – Used for gears at slow speeds and extreme pressures, Oil-lubricated plane bearings.
35		4 ltr	
45 05 36	M-30	1 ltr	Micro MoS ₂ dispersion for high temperature chains and rollers.
Lubricant Film			
45 05 41	M-8800	360 ml (Aerosol)	Air-curing dry film lubricant for metal/metal combinations with slow to medium fast movements and high loads. It also prevents sticking rubber parts.
42		1 ltr	
43		4 ltr	
45 05 44	D 321R	223 ml (Aerosol)	Air-curing dry film lubricant for metal/metal combinations with slow to medium fast movements and high loads and the running-in of highly stressed gear wheel.
45		1 ltr	
46		4 ltr	
45 05 47	106	1 ltr	Heat cured dry film lubricant for highly stressed friction combinations with low speeds or oscillating operation.
48		4 ltr	

Tanks Compounds

Compuestos para Tanques アベキシャー 罐油柜保护膜

A protective coating. No. 1 is for interior surfaces of pressure steam tanks including boilers, economizers, calorifiers, turbines and hot water tanks of temperature above 100°C (212°C). No. 3 is for wet surfaces of a temperature below 50°C (125°C) or for dry, hot surfaces up to a temperature of 200°C (400°C).

45 05 61	Apexior compound	No. 1 1 gal	Can
62	"	No. 3 1 gal	"

MolySlip Anti-Seize Compounds

Compuestos Antifricción

モリスリップ焼付防止剤 防粘混合物

Copaslip™

A high-performance compound specifically formulated to protect fasteners from seizure-induced by extremes of temperature, pressure, and corrosion. The semi-synthetic base fluid is reinforced with anti-oxidants, corrosion inhibitors and ultra-pure copper particles to provide outstanding protection to threads and components.



CODE	Contents	Unit
45 05 65	400 ml (Aerosol)	Tin
66	500 grm	"
64	5 kg	Keg

Molyslip® AS 40

A high-performance lubricant containing molybdenum disulphide (MoS₂) and graphite, formed into a soft paste.

Designed for use in situations where a hydrodynamic oil film cannot be tolerated or is impossible to achieve – for example during component assembly, machine start-up and high load/slow speed operations.



CODE	Contents	Unit
45 05 94 95	500 gram 5 kg	Tin Keg

Alumslip

A high temperature anti-seize compound formulated to protect fasteners from seizure induced by extremes of temperature, pressure and corrosion. The mineral oil base fluid contains micronized particles of metal and non-metal fillers to provide excellent lubrication and protection to threads and components.



CODE	Contents	Unit
45 05 93 97	500 gram 5 kg	Tin Keg

Molyslip Products

Productos de Molyslip モリスリップ製品 工業用產品



CODE	Type	Contents	Application	Unit
45 05 68	ARVINA MB2	450 g	A mineral oil based, non-melting organo-modified clay thickened grease designed to lubricate bearings operating in variety of extreme conditions.	Tin
60		4.5 kg		Keg
45 05 69	ARVINA OGO	500 g	Heavy duty lubrication for extreme conditions. Tough, adhesive tenacity, won't be thrown off by gears or scraped off by motion.	Tin
70		4.5 kg		Keg
45 05 71	ARVINA HX2	450 g	A premium quality, heavy duty grease designed for the lubrication of ball, roller and plain bearings operating in arduous conditions.	Tin
72		4.5 kg		Keg
45 05 73	Liquid Grease L.Q.G.	400 ml (Aerosol)	Liquid grease for spraying into inaccessible places, it will not drain away like an oil. Will remain in place for months reducing friction and preventing metal to metal vibration and squeaking.	Tin
74		5 ltr		Tin
45 05 75	Dry Moly Spray	400 ml (Aerosol)	Molybdenum disulphide dry film lubricant. For lubrication in situations where oil or grease are not acceptable. Good for preassembly treatment.	Tin

45 05 77	Combat	400 ml (Aerosol)	Multi purpose lubricating spray with water displacing, penetrating and anti rust protective film properties.	Tin
45 05 78	WRL-C5	400 ml (Aerosol)	Semi-fluid grease with Moly and graphite. Ideal for wire ropes and chains. Highly water repellent and tenacious – will not fling off.	Tin
79		4.5 kg		Tin
80		18 kg		Drm
45 05 88	SLIPCLEAN DL	400 ml (Aerosol)	Designed for the safe and effective removal of a wide range of industrial soils / contaminants including oil(s), grease, tar/bitumen wax compounds, carbon deposits, inks, and semi-cured adhesives.	Tin

SAF-T-EZE Anti-Seize Products

Productos Antifricción de SAF-T-EAE

サフ・ティ・イーズ製品

SAF-T-EZE 防粘制品



Compounded from fine metallic particles and graphite in a heat resistant lubricant. For ultimate protection to over 2,000°F use to speed assembly and prevent cold welding or carbon fusion as well as rust and other corrosion.

Unit Per Tin

CODE	No./Name	Applications	Contents
45 06 61	Regular Anti-Seize SL-16	Service to 2,000°F. Produced from copper, aluminium and graphite in grease. Resists corrosion and galvanic attack even in the presence of salt water.	16 oz/Can
45 06 62	Regular Anti-Seize SBT-8		8 oz/Can (Brush Top)
45 06 65	Nickel Anti-Seize SL-16N	Service to 2,600°F. Compounded from nickel, aluminium and graphite in a heat resistant lubricant.	16 oz/Can
45 06 66	Nickel Anti-Seize SBT-8N	Recommended when very different metals are used together. Works well on stainless steel.	8 oz/Can (Brush Top)
45 06 71	Moly-Grade M-16	Service to 650°F. Compounded with molybdenum disulphide for extreme pressure applications. Prevents wear or galling on gears or splines operating under high load at low speed.	16 oz/Can
45 06 72	Moly-Grade MBT-16	Withstands pressures to 0.5 million psi.	16 oz/Can (Brush Top)

Name of Mfr.: SAF-T-LOK Corporation

(to be continued)

Anti-Seize Lubricants

Loctite® LB8150 (Silver Grade Anti-Seize 767)

Lubricantes Antigripantes 燃付き防止剤
防卡死润滑剂



Heavy-duty, temperature-resistant, petroleum-based lubricant compound fortified with graphite and metallic flake.

Inert, will not evaporate or harden in extreme cold or heat. For use in assemblies up to 1,600°C (871°C).

CODE	Contents	Unit
45 06 81	454 grm	Can
88	210 grm	Brush Top

Loctite® LB771 (Nickel Anti-Seize)

Copper-free.



Recommended for stainless steel and other metal fitting.

For preventing corrosion, seizing, and galling in harsh, chemical environments, and temperatures to 2,400°F (1,315°C).

CODE	Contents	Unit
45 06 82	454 grm	Can

Copper Anti-Seize Lubricant

Loctite® C5-A® LB8007/8008

Anti-Seize Products アンチシーズ 防胶着剂



Exclusive formula suspends copper and graphite in a high quality grease. Protects metal parts from rust, corrosion, galling, and seizing at temperatures to 982°C (1,800°F). Tested to MIL-PRF-907E. Copper colour is available.

Typically applications include original equipment and maintenance, and equipment associated with petroleum chemicals, steel mills, power plants, marine and foundries.

Unit Per Can			
CODE	Product No.	Contents	Colour
45 06 83	8007	12 oz/400 ml aerosol	Copper
84		13 oz	
85		1 lb/454 grm can	
86	8008	8 lb/3.6 kg can	
87		1 lb/454 grm brush-top can	
89		210 grm brush top	

Heavy Duty Anti-Seize

Loctite® LB8009

Anti-Seize Products アンチシーズ HD

重载抗咬合剂



Excellent lubricity. Metal-free formulation provides outstanding lubrication to all metals including stainless steel, aluminium, and soft metals up to 1,315°C (2,400°F). Typical applications of this product includes bolts, screws, studs, pipe joints, nuts, plugs, bushings, metal bending, mechanical packings, etc. Black colour is available.

Unit Per Can		
CODE	Contents	Colour
45 06 91	1.2 lb brush-top can	Black
92	2.3 lb	

Marine Grade Anti-Seize

Loctite® LB8023

Productos Antifricción, Loctite Marítimo

アンチシーズマーリングレード 海事抗咬合剂



Metal-free formulation to protect assemblies exposed directly or indirectly to fresh or salt water. Loctite® Marine Grade Anti-Seize works especially well in high humidity conditions. It has excellent lubricity, superior water-washout and water spray resistance and prevents galvanic corrosion. Protects in temperatures from -29 to 1,315°C (-20 to 2,400°F). Typical applications are bolts, screws, studs, pipe joints, nuts, shafts, bushings, splines, chains, and cables in marine applications, dressing for water pump gaskets and flanges, pulp and papermills, water and waste water treatment plants.

Unit Per Can		
CODE	Contents	Colour
45 06 93	8 oz	Black
94	16 oz/454 grm	

Freeze & Release

Loctite® LB8040

Antioxidante Freeze & Release

錆びたボルトの取り外し用潤滑剤



Freeze & Release 除锈冷冻松脱剂

Releases rusted, corroded and seized components by the shock-freezing effect; wicks directly into the rust by capillary action; released parts remain lubricated and protected from corrosion.

CODE	Contents	Unit
45 07 07	400 ml	Can

Five Way Spray

Loctite® LB8201



Lubricante Five Way Spray

錆止めファイブ・ウェイ・スプレー 防锈喷雾剂

General Purpose Lubricant.

For light lubrication of metals; cleans parts, displaces moisture and prevents corrosion.

CODE	Contents	Unit
45 07 08	400 ml	Can

Multi-Purpose Maintain Lube

Loctite® ML-11™



Mantenimiento multipropósito de lubricante

多用途潤滑剂 多用途维护润滑油

Oil base spray, provide lubrication, cleaning and rust prevention for protecting metal surface. Expel, eliminate and prevent water and moisture of various electrical devices. Penetrate smoothly to deep inside area for lubrication and rust prevention. Help the

devices operate smoothly by reducing preparatory motion or noise.

Unit Per Can

CODE	Contents	Colour
45 07 09	360 ml	Clear/Straw

Biodegradable Anti-Seize Compound

Compuesto antiadherente biodegradable

生分解性焼付き防止剤 生物可降解防卡剂

Bio-based high temperature and EP grease. This grease is fortified with additives that provide excellent lubricating properties, stability and anti-wear capabilities. It is non-gumming, no-petroleum based grease. It has no drop point, so it will not run out of threads when heated. It sticks to the metal threads and lets joints in pipe or nuts on bolts or studs make up less torque.



NLGI Grade: 1, an EAL and EPA/VGP Compliance product.

45 06 73	Anti-Seize Compound, Biodegradable 450 grm per can (24 cans per carton)	C/T	
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Aerosol Products

Aerosol Products エアゾール製品 气雾剂产品

A wide range of CRC products are available according to their applications, i.e. lubricating, penetrating, demoisturizing, anticorrosion, degreasing, rust removing, electrical cleaning, etc.



The most common items are listed below. These aerosol products do not emit harmful fluorocarbons and are ozone safe. Liquid types are also available upon request.

For further detailed information or instructions for use, please write or ask local supplier for catalogues before ordering.

Unit Per Tin

CODE	Name	Contents	Description
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For Mechanical use

45 05 81	3-36	500 ml	Rust and corrosion preventive. Penetrating and Moisture-off.
82	5-56 Power Spray	400 ml	Removing rust and corrosion, lubricant and penetrating.
83	Brakleen	500 ml	Broken parts cleaner.
84	6-66	300 ml	Moisture-off, penetrating and lubricating.
86	Seal Coat	11 oz	Rust preventing.
87	Zinc-IT	13 oz	Cold galvanize rust protector.

For Electrical Use

45 05 91	2-26	500 ml	Moisture-off corrosion preventing, lubricating and penetrating.
92	Lectra Clean II	500 ml	Electric motor and equipment cleaner.

Cleaners for Precision Use

45 09 01	Contact Cleaner	14 oz	Solvent cleaner for light contaminants on electric or electronic parts. Compatible with most plastics.
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(to be continued)

45 09 02	N.F. Precision Cleaner	300 ml	Non-flammable solvent cleaner for light contaminants on electrical or electronic parts.
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Cleaners for Heavy Duty

45 09 05	ECO Complex Blue	750 ml	Non-flammable, slow drying water based cleaner for heavy contaminants in food grade areas.
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Anti Corrosion Products for Inhibition

45 09 11	SP 350	250 ml	Long-term corrosion inhibitor indoor protection up to 2 years.
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Anti Corrosion Products for Coatings

45 09 15	Zinc	500 ml	Cathodic protection, even for damaged galvanized parts. Zinc-based coating with excellent adhesion to metal surfaces.
16	Urethane Coating	11 oz	Protective, urethane based varnish for electronic components.
17	Cold Galvanise	400 ml	High zinc content anti-corrosion paint that offers true cathodic protection to ISO 1461:1999.
18	Bright, Cold Galvanise	400 ml	Repair for hot-dipped galvanise steel: weathers naturally for 'invisible' repairs.
19	Galvanise Zinc Rich	400 ml	High temperature, very fast drying, 'hammered' steel finish silver paint.

Lubricants for Processing

45 09 21	Supercut II	300 ml	Low viscous cutting liquid for normal, metal-cutting operations.
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Lubricants for Oils

45 09 26	Industrial Silicone	10 oz	Synthetic lubricating oil, suitable for plastic drives and applications at high temperatures.
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Welding Products

45 09 31	Crick 110	500 ml	Solvent cleaner to prepare the surface for examination.
32	Crick 120	500 ml	Penetrating colorant to mark the cracks and failures.
33	Crick 130	500 ml	Developer to make the marked cracks and failures visible.

Anti-corrosion Products

45 09 35	Rust Remover	250 ml	Removes corrosion and/or rust from metals.
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Name of Mfr.: CRC Industries

Fault Detection Freezers for Electronics



Congelador de detección de averías para electrónica

回路間欠探知フリーザー

电路间歇性故障检测冷冻剂

Use on electronic circuits to identify intermittent faulty components. Non-flammable, F-Gas compliant, low GWP.

45 09 22	Freezer, fault detection for electronics, Freezer/2, 400 ml	Tin
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Name of Mfr.: CRC Industries (Ambersil)

Remark: F-Gas regulation

Article 13(3) Refrigeration Service Bans:

From 1 January 2020, the use of fluorinated greenhouse gases with a GWP of 2,500 or more, to service or maintain refrigeration equipment with a charge size of 40 tonnes of CO₂ equivalent (CO₂e) or more, shall be prohibited.

This paragraph shall not apply to:

- military equipment, or
- equipment intended for applications designed to cool products to temperatures below -50°C.
- until 1.1.2030: reclaimed or recycled f-gases providing they have been labelled in accordance with Article 12. Recycled gases may only be used by the undertaking which carried out the recovery... or the undertaking for which the recovery was carried out.
- refrigeration equipment for which received an exemption has been (Quoted from "Guide to updated EU f-gas regulation (517/2014)", published by the Linde Group).

Engine Igniters

Autoarranque イグナイター 发动机点火装置

Diesel engine aerosol igniter. Insures quick engine starts at low temperatures and reduces wear on the engine, starter, and battery. Also serves as a rust inhibitor and lubricant.

45 05 96	Engine Ignitor Aerosol 300 cc	Tin
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Krylon Industrial Sprays

Aerosoles Industriales de Krylon クリロン製品 Krylon 工業噴涂料

Unit per Tin

CODE	No./Name	Applications	Contents
Coatings			
45 06 01	No. 1304 Ignition Sealer	Seals all electrical connection for quick sure starts.	13 oz
02	No. 1307 Battery Protector	Effectively seals battery terminals, cables, and ignition systems.	13 oz
03	No. 1330 Belt Dressing	Provides belt gripping action. Extends belt life, and reduces machinery down time.	13 oz
04	No. 7004 Insulating Varnish	Use on re-wound motor windings, starter windings, armatures, coils, switch board parts, etc.	13 oz

Lubricants

45 06 06	No. 1322 Open Gear Lubricant	Constant lubrication at extreme pressure. Forms a continuous film of lubrication under all loads and speed.	13 oz
07	No. 1325 All-purpose Silicone Spray	Penetrates deeply and eliminates sticking, and annoying squeaks caused by friction.	10 oz
08	No. 1332 Let-go	Penetrates deeply to free rusted and corroded parts fast. Excellent for loosening "rust frozen" nuts, bolts, etc.	13 oz
09	No. 1347 Industrial Strength Spray	Lubricates, reduces friction and stops squeaks. Used to penetrate, lubricate and free nuts and bolts, etc.	11 oz
10	No. 1349 Silicone Tube	Used as a release agent, lubricant, and parting agent on metal, plastic, rubber, wood, leather, etc.	10 oz

Cleaners

45 06 16	No. 1323 Cleaner and Degreaser	Penetrates and dissolves engine oil, grease and grime. Excellent cleaner for all types of engines.	13 oz
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45 06 17	No. 1326 Contact & Cleaner Lubricating Spray	Solvent action loosens and dissolves dirt and gummy deposits.	16 oz
18	No. 1327 Electric Motor Cleaner	Instantly penetrates, dissolves and cleans greases, oil and dirt from motors, generators, fans, etc.	16 oz
19	No. 1333 Tuner & Contact Cleaner Lubricant Spray	For contacts, switches, relays. Provides a long-lasting, non-drying film which lubricates the surface and protects against corrosion.	16 oz
20	No. 1336 Battery Cleaner	Cuts through and dissolves power-robbing acid corrosion to clean battery terminals, cable connectors, and frames.	15 oz
21	No. 1351 Electronic Contact Cleaner & Lubricant Spray	Solvent action dissolves oily deposits on switches and other electrical contacts.	10 oz
22	No. 1352 Brake Cleaner	Dissolves and flushes away brake fluid, oil, grease and dirt from brake linings, disc brake pads, etc.	16 oz

Spanjaard Products

Productos de Spanjaard

スパンヤード製品 Spanjaard 制品



The Spanjaard range of marine products covers the entire spectrum from navy or merchant navy to leisure craft.

CODE	No./Name	Applications	Contents
45 06 45	COLD ZINC GALVANISING SPRAY	A reliable galvanising coating and/or primer for the protection of steel surfaces against corrosion. Zinc-rich touch-up paint for galvanised steel. Guards the quality and integrity of iron and steel in coastal, underground and humid/corrosive conditions.	400 ml/ Spray
45 06 31	SPARK (MULTI-PURPOSE LUBRICANT) NON-FLAMMABLE AEROSOL	A non-flammable version of SPARK (MULTI-PURPOSE LUBRICANT) for use where explosive or fire hazard conditions exist.	500 grm/ Spray
45 06 32	SPARK (MULTI-PURPOSE LUBRICANT)	A water displacing, anti-corrosive, penetrating and lubricating oil for limitless applications. Available in standard and non-flammable versions (in aerosol and bulk form).	300 ml/ Spray

(to be continued)

(to be continued)

CODE	No./Name	Applications	Unit Per Tin/Can		
45 06 34	COPPER COMPOUND (ANTI-SEIZE)	Prevents the seizure of nuts and bolts up to 1,100°C or under corrosive conditions. Ensures firmer tightening and easier loosening of threaded connections and mating surfaces.	100 grm/ Tube	OPEN GEAR LUBRICANT (OGL) 1279-1.5	Lubricant in the milling industry which is completely water resistant. Suitable as a slow-speed, anti-friction bearing grease when water-resistant properties are important. Heavy-duty open gears of ball and rod mill drives in the milling industry. NLGI consistency of 1.5.
33			400 ml/ Spray		
35			500 grm/ Tin		
45 07 10			500 grm/ Brush Top Tin		
45 06 30	FLAW & CRACK DETECTOR SYSTEM	A 3-part non-destructive testing (NDT) system for locating defects on the surfaces of metals. It is essential that all three packs are used: No.1 Cleaner, No.2 Penetrant and No.3 Detector.	350 ml Spray x 3/Set	WIRE ROPE DRESSING 1345	A tacky, semi-synthetic lubricant specifically designed for wire ropes in mining, marine, earth-moving and industrial equipment.
45 06 46	GEARBOX & DIFFERENTIAL LUBRICANT SUPPLEMENT	A specialised supplement gives excellent performance in automotive gearboxes (non-automatic), steering boxes, differentials and transmissions in passenger, transport, earth-moving, industrial vehicles and equipment. Smoother gear selection and quieter differential. Reduces wear and extends life and reliability of manual gearboxes. Not suitable for automatic transmissions and limited slip differentials.	100 ml/ Tube	SPATTER RELEASE #640 (NON-WATER BASED) NON-SILICONE	An environmentally friendly oil-based version of the above. Suitable for surfaces requiring painting or galvanising after welding.
47			5 ltr/Tin		
48			20 ltr/ Drum		
45 06 49	LECTRO KLEEN	Precision contact cleaner spray for use in industry, the office and home. Provides a convenient method of cleaning of electrical and electronic equipment. Degreases and evaporates quickly and completely, leaving no residue. Does not attack metals, plastics, rubbers, painted surfaces or lacquers.	200 ml/ Spray	WR BEARING GREASE (WATER RESISTANT BEARING GREASE)	An extreme-pressure, lithium-based grease with high-adhesion properties. Water and steam-resistant, red bearing grease. Bears heavy loads at slow to medium speeds with its extreme-pressure. Suitable for temperatures of up to 180°C. Popular with agricultural machinery, heavy construction and industrial equipment.
50			400 ml/ Spray		
45 07 11	LECTRO KLEEN (NON-FLAMMABLE AEROSOL)	Non-flammable and non-conductive precision contact cleaner spray for cleaning of electrical and electronic equipment. Leaves no residue. Compatibility with plastics and rubbers must be checked before use.	430 grm/ Spray	SILICONE PASTE	A white, translucent, non-melting stable paste. An excellent rubber lubricant, electrical insulating compound and release agent with high water resistance. Sealing electrical equipment prevents ingress of water which evades the potential for corrosion. Non-conductive, non-staining and colourless. NSF registered for incidental food contact (Category H1: Reg # 139904).
45 06 53	MPG (MULTI-PURPOSE GREASE - PREMIUM GRADE)	A premium-quality, non-melting, bentonite grease with good extreme-pressure properties for use in medium to high-load applications. Suitable for working temperatures up to 160°C with intermittent peak use up to 200°C. Anti-wear properties strengthened with molybdenum disulphide (MoS ₂). Anti-corrosive in harsh conditions.	500 grm/ Tin		
54			5 kg/Tin	TOOL JOINT LUBRICANT	A non-melt, extreme-pressure thread lubricant strengthened with graphite and molybdenum disulphide (MoS ₂). Mainly applied to threads in "slim-hole" drilling applications in civil construction including quarries, dams and surface mining. Prevents seizure and galling of threads and joints and facilitates 'breakout' of drill rods after drilling.
55			15 kg/ Keg		
45 06 41	OPEN GEAR & WIRE ROPE SPRAY	Provides an economical, high-performance adhesive black open gear and wire rope lubricant and corrosion protector. Reduces gear shatter and will not affect gear tolerances. Penetrates deep into the core of the rope. For use in spur, helical, worm-drive gears and open gears under high-load conditions.	350 ml/ Spray	"E" ENGINE OIL SUPPLEMENT	A wear-and-friction-reducing supplement for internal combustion engines. Improves oil pressure without clogging the filter and oil ways. Contains molybdenum disulphide (MoS ₂) which maintains lubrication under extreme heat and pressure conditions. Improves fuel economy.

(to be continued)

WD-40 Products

WD-40

Productos WD-40 WD-40 製品 WD-40 产品

WD-40 products for marine maintenance work are listed below.



Unit Per Tin

CODE	Product	Content	Description
45 07 02	WD-40 Multi-Use Product	350 ml	Protects metal from rust and corrosion, penetrates stuck parts, displaces moisture and lubricates almost anything. It even removes grease, grime and more from most surfaces. Bulk 4 ltr size is ideal for heavy jobs that require soaking and dipping.
36		4 ltr	
45 07 20	WD-40 Specialist White Lithium Grease	360 ml	A high-quality lithium-based grease as its thickener, the white lubricant features high-viscosity long-term lubrication, good adhesion, water and heat resistance and is very suitable for metal to metal lubrication.
45 07 26	WD-40 Specialist Fast Dry Contact Cleaner	360 ml	Remove all kinds of grease, dust, flux residue and coagulation of sensitive electronic components and electrical equipment, featuring quick drying and residue free.
45 07 27	WD-40 Specialist Fast Acting Degreaser	450 ml	A water-based, quickly remove grease, oil stains, dirt and stains without residue. Power foam works immediately on contact and rinses away easily. Can be used to clean all kinds of non-electrical parts, such as marine equipment surface, deck, inner wall of cabin, tools and kitchen.
45 07 28	WD-40 Specialist Rust Remover	1 gal/Btl	Dissolves rust quickly without harming surrounding parts, trim, gaskets or paint. Ideal for restoring rusted parts to bare metal. Rust parts need to be soaked into liquid.
45 07 29	WD-40 Specialist Heavy Duty Grease	396 grm	A calcium sulfonate grease that offers a versatile solution for all extreme conditions. Reliable temperatures of its drop point of >650°F, it provides marine-grade water resistance and protection against rust and corrosion.
45 07 30	WD-40 Specialist Air Conditioning Disinfectant	360 ml	For cooling-fin of air-conditioners, the sprayed foams will clean the dust and disinfect the germs (99.999% sterilizing rate of <i>Bacillus coli</i>).

Multi-Purpose Lubricants

Lubricantes Multi-usos

銷止め浸透潤滑油 多功能润滑油

These lubricants will stop squeaks, displace moisture, penetrate and prevent corrosion. Specify product name and type when ordering.



Boeshield T-9



Three Bond 1801B

Unit Per Tin

CODE	Product	Contents	Type
45 07 03 04 05	Boeshield T-9	4 oz	Spray
	Boeshield T-9	12 oz	Spray
	Threebond 1801B	180 ml	Spray

Valvoline "Tectyl" Rust Preventives

Anti-oxidante Valvoline "Tectyl"

テクティル製品 "Tectyle" 防锈剂

The most common types of Valvoline products are shown below. For a further variety of products and detailed information, please write or call your local distributor.



Unit Per Tin/Can

CODE	Product	Cont.	Description
45 07 21		300 ml (Aerosol)	Excellent for protection of metallic surface for machinery, tools, dies, tubing, stampings, structures, vehicles etc, in long term indoor or outdoor exposure and during domestic and overseas shipment, storage.
		506	
22		20 ltr	
23	511M	20 ltr	Designed to protect ferrous and non-ferrous industrial parts and transportation components during covered shipment and inside storage. Polar-chemical water displacer. Self healing film. Packaging preservative for overseas shipment of parts.
24	810	20 ltr	Water emulsifiable, oil concentrate corrosion preventive compound. The film is thin and oily. Excellent lubricity for a variety of industrial metalworking.

"Biral" Aerosol Lubricants

"Biral" Aerosol Lubricants ピラル潤滑剂

"Biral" 气溶胶润滑剂

From among various types of Biral products, the two most common types are listed below with their respective specifications.



VG-HT Type

Penetrates deeply into difficult to access parts and sets into a grease type consistency which is very water repellent.

PO Type

An effective rust remover which serves as a lubricant and also prevents against further corrosion. It has exceptional

penetrating qualities reaching all parts of the machine, leaving behind a thin, rust preventing film.

Unit Per Tin

CODE	Product	Cont.	Type	Major use
45 07 31	VG-HT	480 grm	Visco grease high temperature	For chains, sliding surfaces, gear wheels, transmissions, hoists, hinges, wire lubrication for ships, offshore equipment, etc. From -20 to 270°C
32		5 ltr		
33	PO	40 grm	Penetrating Oil	
34		5 ltr		For rusted screws, etc.

Super Extreme Pressure Lubricants, Chlorine-Free

Lubricantes Super Extrema Presión, Sin Cloro

塩素フリー 超極圧潤滑剤 超級極壓潤滑劑，無氯



Super-strong lubricant spray that forms a special film on metal surfaces and maintains excellent lubrication, rust and moisture protection for a long period. Combined with high penetrating properties, it is excellent for equipment maintenance, removal of adhering fittings, machining work, and various industrial machine parts including gears, chains, hinges, sprockets etc. Environmentally friendly lubricants with chlorine-free.

45 07 35	Super Extreme Pressure Lubricants, Chlorine-Free, 420 ml	Tin
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Weicon Spray Products

Weicon Spray Products

ウェイコンスプレー製品

WEICON 喷雾剂产品

High quality spray products for maintenance and repair.



Unit Per Tin

CODE	Name/ Contents	Applications
Cleaning		
45 08 01	Cleaner Spray S 500 ml	Degreasers and cleans all metals, glass, ceramics and most plastics. This spray is recommended for the pre-treatment of surfaces in applications with other Weicon products where greasy or oily layers would reduce their effectiveness.
45 08 02	Sealant and Adhesive Remover 400 ml	Quickly and easily removes residues of hardened sealants and adhesives as well as lacquers and paints, even from vertical surfaces. New formulation – free of dichloromethane.
45 08 03	Stainless Steel Care spray 400 ml	Antistatic cleaning and preserving care agent for mat and glossy stainless steel surfaces indoor and outdoor.
45 08 04	Multi-Foam 400 ml	The powerful foam cleaner for metals, plastics, lacquered surfaces, glass, tiles, textiles, carpets and upholstery.
45 08 05	Compressed Air Spray 400 ml	An allround problem solver. It removes dust and fluff quickly and reliably from sensitive surfaces and parts which are not easily accessible.

(to be continued)

45 08 06	Visor Cleaner 200 ml	Visor cleaner is the ideal product for the cleaning and care of sensitive plastic and glass surfaces, e.g. visors, safety goggles, welding face shields, protection caps safety glass, etc.
45 08 07	Screen-Cleaner 200 ml	The ideal product for the cleaning and care even of sensitive plastic and glass surfaces. Removes dirt, dust, grease, and nicotine and cleans carefully without leaving residues.
45 08 08	Electro Contact Cleaner 400 ml	Cleaning and degreasing of electrotechnical or mechanical parts, like e.g. electric machines, measuring instruments, balances, switches or sensors. Also ideal for all electric connections, contacts, relays and switchboard plants.
45 08 09	Parts and Assembly Cleaner 500 ml	Cleaner with especially long working time, especially for coarse, oily and greasy soiling as well as for cleaning bigger areas. Due to the high flash point, it corresponds to the VbF Classification A III.
Protection		
45 08 11	Zinc Spray 400 ml	Long term cathodic corrosion protection (< 550 hours salt-spray test acc. to DIN 53167 and DIN 50021) for all metal surface. For priming and touching up hot galvanized parts.
45 08 12	Zinc Spray "Bright Grade" 400 ml	Long term corrosion protection, matches the colour of hot galvanized surfaces, temperature resistant up to 300°C. Very good resistance to salt and water.
45 08 10	Zinc-Alu-Spray 400 ml	Anti corrosion protection, tone approaching hot galvanizing.
45 08 13	Stainless Steel Spray 400 ml	Corrosion and weathering-resistant surface coating, abrasion resistant, heat up to 300°C.
45 08 14	Aluminium Spray A-100 400 ml	Aluminium pigments of a purity of < > 99.5% offer excellent corrosion protection, temperature resistant up to 800°C, abrasion resistant.
45 08 15	Corro-Protection Spray 400 ml	Due to transparent protective film corrosion protection of metal parts for indoor storage. Rust-proofing of tools and precision parts. TUV approved.
45 08 16	Fitting Spray 200 ml	Fitting spray is a maintenance and care agent with good adhering properties for all movable parts at windows, doors, gates, etc. The transparent product is free of silicones, resins, acids and solvents.
45 08 17	Metal-Fluid 400 ml	Highly-effective product for indoor care, protection and cleaning of mat and polished metal surfaces e.g. stainless steel etc.
Rust Loosener		
45 08 21	W-44T 400 ml	Multifunctions Spray: Loosens seized threads, displaces moisture, eliminates squeaky and creaky noises, cleans dirty metal surfaces, and protects and preserves tools.
45 08 22	Rust-Shock 400 ml	The "Chemical Wrench" frees up rusted threads within seconds by its unique dual-action: chill effect and capillary effect.
45 08 23	Rust Loosener and Contact Spray 400 ml	With 6-fold function: an indispensable aid in all repair, maintenance and servicing jobs.
45 08 20	Rust Converter 400 ml	For the effective neutralisation of rust on rusty cast iron and steel surfaces. Protects from corrosion and is suitable for internal and external use. Based on epoxy resin and forms a metallic-organic iron complex with the rust layer.

(to be continued)

Unit Per Tin		
CODE	Name/Contents	Applications
Lubricating		
45 08 25	Pneuma-Lub 400 ml	Lubricant for pneumatic equipment, high content of PTFE makes it a multi-purpose product for lubrication, corrosion protection, cleaning, water displacing and conservation. Temperature resistant from -50°C (-58°F) up to +210°C (+410°F).
45 08 26	Top-Lub 400 ml	Long-term lubrication for power transmitting bolts, hinges, guides, bearings, joints and couplings. With high adhering properties and good resistance to centrifugation. Excellent creeping properties.
45 08 27	PTFE-Spray 400 ml	Dry, clean and grease-free PTFE-based lubricant with excellent sliding properties.
45 08 28	Silicone Spray 400 ml	Sliding and release agent for efficient production and maintenance. Temperature resistant from -50°C (-58°F) up to +250°C (+482°F).
45 08 29	Chain and Rope Lube Spray 400 ml	Synthetical chain- and rope Lube spray: high pressure-resistance, temperature resistance from -40°C up to +200°C, with excellent adhering and creeping properties, transparent.
45 08 30	AT 44 400 ml	For use in all sectors of industry and workshops. By its special formula, the product combines effectiveness in corrosion prevention, cleaning, water displacement and lubrication.
45 08 31	Bio-Fluid Spray 500 ml	Free of resins and acids, water-white, high purity mineral oil, especially developed for the use in the food, pharmaceutical and cosmetic industries.
45 08 32	Anti-Friction Spray MoS ₂ 400 ml	Anti-Friction Spray MoS ₂ forms a dust-, dirt- and water-rejecting separation layer with very good resistance to oils, grease and many chemicals. The product can be applied on almost all metals, plastic and wood surfaces.
45 08 33	Spray-on Grease, White 400 ml	All-purpose sprayable grease for highly stressed parts. Contains special wear reduction and corrosion-inhibiting additives.
45 08 34	Universal Spray-on Grease with MoS ₂ 400 ml	Strong-bonding and high pressure resistant long-life grease with MoS ₂ . Friction and wear are reduced for a long time.
45 08 35	Adhering Grease - extra strong 400 ml	Special lubricant and corrosion protection, also for underwater applications. Effective protection against aggressive liquids (e.g. salt water, sewage water) in maritime environments and in wet plants.
Hand Protection		
45 08 36	Hand Protective Foam 200 ml	The "invisible glove" prevents the penetration of soilings in the skin's pores.
Technical Sprays		
45 08 41	Leak Detection Spray 400 ml	Non-flammable compound used for fast, convenient and reliable location of even the smallest leaks in pressurized pipes or tanks. Approved for use in gas pipelines (DIN/DVGW Approval NG-5170AO0666).
45 08 42	Welding Protection Spray 400 ml	Prevents the adhesion of weld spatter to gas nozzles and workplaces without affecting the quality of the weld seam. - Silicone-free -.

45 08 43	Contact Spray 400 ml	Dispels moisture from electrical contacts, prevents leakage current and voltage loss and keeps contacts, fuses, cable connections, etc. free of oxidation and sulphide deposits.
45 08 44	Crack Testing Agent Set	System for the non-destructive material inspection using a dye penetrant procedure. The system consists of three technical sprays: Crack Testing Agent Cleaner, Penetrant and a Developer. Suitable for metals, plastics, ceramics, glass, etc.

Name of Mfr.: Weicon GmbH & Co. KG

Anti-Seize Products

Productos Antigripantes 焼き付け防止製品 防卡死产品

High-performance assembly pastes and sprays. Used as corrosion protection and high-performance assembly paste for statically high-stressed screw connections and assembly parts as well as for slowly rotating installations in the high temperature range. Anti-Seize Assembly-Paste, reliable protection against corrosion, seizing and cold welding.

Anti-Seize

Unit Per Pcs.

CODE	Product	Content	Volume
45 08 71	AS 120 P	Brush-top can	120 grm
45 08 72	AS 400 K	Cartridge	400 grm
45 08 73	AS 450 74 AS 1000	Can	450 grm 1.0 kg
45 08 75	AS 1800 76 AS 5000 77 AS 10000	Bucket	1.8 kg 5.0 kg 10.0 kg
45 08 46	AS 500 P	Brush-top can	500 grm

Name of Mfr.: Weicon GmbH & Co. KG

ASW "High-tech" Metal-Free White

Anti-Seize "High Tech" is used as corrosion protection and high-performance assembly paste for statically high stressed screw connections and assembly parts as well as for slowly rotating installations in the high temperature range. Anti-Seize Assembly-Paste "High-Tech", reliable protection against corrosion, seizing and cold welding, especially on stainless steel.

Unit Per Pcs.

CODE	Product	Content	Volume
45 08 81	ASW 120 P	Brush-top can	120 grm
45 08 82	ASW 400 K	Cartridge	400 grm
45 08 83	ASW 450 84 ASW 1000	Can	450 grm 1.0 kg
45 08 85	ASW 1800 86 ASW 5000 87 ASW 10000	Bucket	1.8 kg 5.0 kg 10.0 kg
45 08 47	ASW 500 P	Brush-top can	500 ml

Name of Mfr.: Weicon GmbH & Co. KG

Copper Paste

A protecting, separating and lubricating agent for highly stressed parts, used as assembly lubricant for threaded joints and sliding surfaces of all kinds. The strongly adhering paste consists of special additives and a combination of solid lubricants made of graphite and copper particles. This ensures low friction values in threaded joints and excellent separating characteristics. Copper Paste provides an efficient lubricating and separating layer on plug-in tools, wear bushings and threaded, plugged-in or bayonet joints of all kinds, thus protecting the functional surfaces from corrosion and seizing. Temperature resistant from -20°C (-4°F) up to +1,100°C (+2,012°F).

(to be continued)

Unit Per Pc.			
CODE	Product	Content	Volume
45 08 88	KP 120P	Brush-top can	120 grm
45 08 89	KP 450	Can	450 grm
45 08 90	KP 500 P	Brush-top can	500 grm
45 08 91	KP 1000	Can	1.0 kg
45 08 92	KP 10000	Bucket	10.0 kg

Name of Mfr.: Weicon GmbH & Co. KG

Silicone Grease/Compounds

Compuestos de Grasa de Silicona

シリコングリース / コンパウンド

硅滑脂

Has superior conductivity and is an effective lubricant in a wide temperature range. Can be applied to most materials, including plastic resin. As a wide variety of products are available, please specify the application of the product and the size of the container required from the code table below.



	CODE	Application	Cont.	Major Usage
Grease	45 07 51	Low Temperature (-70 - 160°C)	100 grm/tin	Lubricating of bearings, motor gears and measuring tools.
	52		200 grm/tube	
	53		1 kg/can	
	54		4 kg/can	
	45 07 56	Normal Temperature (-40 - 180°C)	100 grm/tin	Lubricating of bearings, and fan motors.
	57		200 grm/tube	
	58		1 kg/can	
	59		4 kg/can	
	45 07 61	High Temperature (-20 - 250°C)	100 grm/tin	Lubricating of motors, pumps and valve gears of steam turbines.
	62		200 grm/tube	
	63		1 kg/can	
	64		4 kg/can	
Compound	45 07 65	General Electric Insulation	200 grm/tube	Insulation for electric contacts, terminals and cables.
	66		1 kg/can	
	67		4 kg/can	
	45 07 71	General Radiation	1 kg/can	Radiation from electric & electronic equipment.
	72		5 kg/can	
	73		15 kg/can	

Heat Resistant Pipe Dressing

Pintura Protección anticorrosiva para Alta/Baja Temperatura

耐熱防錆グリース 耐热防锈管镀膜

Possessing high resistance against both high & low temperature. Surface-drying type and anticorrosion coating agent. It is particularly suitable for dressing hydraulic and steam lines, windlasses and deck winch cylinders, etc.



Specifications		
Outward Appearance	Caramel color, with Homogenous soft texture	
Cone Penetration	310 - 340 mm	
Specific Gravity	0.940	
Film Type	Semi-transparent and rubbery	
Drying Time	Dries in 48 hours (Surface dry)	
Ideal Film Thickness	3 mm - 4 mm	
Coverage	0.5 m ² / kg at 2 mm thick	
Contents	16 kg / can	
45 07 91	Heat resistant pipe dressing, 16 kg	Can

Charcoal

Carbón de Barbacoa 木炭 木炭



For broiling meat or barbecuing.
Furnished in 6 kg bags.

45 10 01	Charcoal, broiling meat, 6 kg/bag	Kgs.
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Miscellaneous Oil

Oil, Colza (Rape-seed) Oil:

An oil produced by the expression of rape seed. It is used as a lubricant, illuminant and in small quantities in the heat treatment (quenching) of steel.

Oil, Fish:

An oil produced by cooking or pressing the bodies of fish, principally the menhaden (moss bunker or pogy fish). It is used in the manufacture of low-grade paints, slushing decks, in the preparation of lubricant compounds such as are used for sluicing down rigging and hawsers, for tempering steel, as a leather dressing, and in the treatment of oil skins, it has a very disagreeable odor.

Oil, Linseed, Boiled:

Made by heating the raw oil (obtained from the flax plant) to a temperature of from 300° to 500°F or by adding about 2% oxide of lead or oxide of manganese, or both, which produces the same effect as boiling. Paint made with boiled oil requires about 24 hours to dry hard.

Oil, Linseed, Raw:

Pressed from the seed of the flax plant and used chiefly on surfaces exposed to the weather. It requires about five times longer to dry than boiled linseed oil. However, the addition of driers greatly reduces the time required.

Oil, Storm:

A vegetable or animal oil used to spread on the sea in heavy weather to reduce the breaking crests of the waves. Animal and vegetable oils have better spreading qualities than mineral oil, in the order named, as follows : Soapsuds, sperm, rape seed (colza), linseed, petroleum.