

Brugarolas

INDUSTRIAL LUBRICANTS

ABOUT US

Brugarolas S.A. is a historical chemical company with vast experience in the lubricant sector. We dedicate all resources to manufacturing and developing all type of greases, industrial oils, metalworking fluids, metalforming lubricants, as well as, many other auxiliary products intended for all industrial needs.

Since 1885, Brugarolas continues growing and implementing its knowledge and experience in all applications and industrial processes allowing us to offer one of the widest lubricant porfolio in the market.
More than 3.000 products full of history and technology.
Products developed to satisfy and fulfill common applications, special ones and, new developments.
Our products and services are exported to more than 60 countries around the globe.



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This general catalogue is a summary of our full product portfolio. We hope it will be useful to quickly find the most appropriate product from our range that will solve your needs. Please contact us or a responsable person of our distribution channel in order to obtain extended information about our products and services.

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GENERAL GREASES

Multipurpose greases for general industrial applications under normal temperature and load conditions.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Properties
G.A. A-420	Calcium	M	1 2 3	150	-20 to 90	General grease.
G.A. N.90	Lithium	M	2 3	190	-20 to 120	General grease.
G.A. N.80		M	1 2	190	-30 to 120	General grease for low temperature.
G.A. N.70 EP		M	1 2 3	185	-20 to 120	General EP grease.
G.A. N.850 EP		M	1 2 3	190	-25 to 120	General EP grease.
G.A. 485 EP	Lithium-Calcium	SS	0 1 2 3	160	-20 to 120	General EP grease.



Águila lubricating grease
Beslux lubricating grease

M = Mineral / **SS** = Semisynthetic / **S** = Synthetic / **PFPE** = Polyfluoroethylene, fluorinated oil

HIGH LOAD - EP

Greases for applications with high pressure and wear requirements.



PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Welding load	Properties
G.A. PLEX	Lithium complex	(°C)	1 1/2 2 3	260	-20 to 150	450	Multipurpose EP
G.A. PLEX 2/3 AZUL		M	2/3	280	-30 to 150	500	Blue, Multipurpose EP
G. BESLUX KOMPLEX M	Polyurea	M	1 1/2 2	250	-20 to 150	300	Long life EP greases.
G. BESLUX KOMPLEX H		M	1 1/2 2	250	-20 to 150	300	
G. BESLUX SULPLEX 2/3 AZUL	Calcium sulfonate	M	2/3	280	-30 to 160	700	Very heavy load and water resistance.
G. BESLUX SULPLEX L PLUS		M	0 1 2	285	-30 to 160	700	
G. BESLUX SULPLEX M PLUS		M	1 2	285	-25 to 160 -20 to 160	700	
G. BESLUX SULPLEX H PLUS		M	0 1 2	270	-15 to 160	700	

GEARBOXES

Fluid greases inteded for the lubrication of enclosed gears.



PRODUCT	Thickener	Base oil	NLGI consistency	Temp. range (°C)	Properties
G. BESLUX SINCART M-00	Lithium	S (PAG)	00	-45 to 150	Undercrankcase gear grease for long-life lubrication.
G. BESLUX GEARLUB EH-00	Lithium complex	M	00	-10 to 100	Undercrankcase gear grease with excellent EP properties.

HIGH SPEEDS

Greases for high revolution applications that require a lubricant capable of facilitating rotation and offer bearing protection. Low viscosity base oils are used in these type of products.



PRODUCT	Thickener	Base oil	NLGI Consistency	Base oil viscosity(cSt)	Temp. range (°C)	Speed factor	Properties
G. BESLUX PLEX L-2 EP	Special Lithium	SS	2	125	-40 to 160	600.000	Lubrication of electric motors, high temperature and contact with water.
G. BESLUX PLEX L-2/S	Lithium complex	S	2	12	-55 to 150	1.000.000	Very high speed factor.
G. BESLUX KOMPLEX ALFA	Polyurea	S	0/1	100	-50 to 180	700.000	Long-life grease for electric motor lubrication.
			2	100	-40 to 180		
G. BESLUX PLEX BAR L-2/S	Barium complex	S	2	22	-50 to 150	1.000.000	Electric motor lubrication and aggressive environments.

HIGH TEMPERATURES

Products with high thermal resistance intended to work at constant high temperatures.

PRODUCT	Thickener	Base oil	NLGI Consistency	Dropping point (°C)	Temp. range (°C)	Properties
G. BESLUX TF M-2/S	Inorganic	S	2	-	-40 to 200	Grease with PTFE for high temperatures.
G. BESLUX VHT		M	2	-	-10 a 180	Grease with MoS2 and antioxidant additives.
G. BESLUX KOMPLEX HT-S	Polyurea	S	1/2	250	-20 to 200	Long life grease for very high temperatures.
			2			
G. BESLUX FLUOR HT	Organic	PFPE	1	-	-60 to 280	Greases for extreme temperatures, aggressive environments, in presence of oxygen, high loads and long life.
			2		-40 to 280	



HUMID/AGGRESSIVE ENVIRONEMENTS

Products for applications with strong presence of water or steam, as well as, chemicals that can affect the characteristics of greases.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°)	Properties
G.A. AUREA H-2 GREEN	Lithium-Calcium	M	2	185	-20 to 120	Multipurpose green grease for humid environments.
G.A. AUREA EH-2 GREEN						
G.A. JET-70	Lithium-Calcium	SS	2 3	155	-10 to 110	Adhesive grease for humid-marine environments.
G. BESLUX PLEX BAR L-2	Barium complex	M	2	250	-15 to 160	Greases for aggressive wet environments With good EP properties. Mild chemical resistance.
G. BESLUX PLEX BAR M			1/2 2			
G. BESLUX PLEX BAR H			1 1/2 2			
G. BESLUX SULPLEX ROPE-00	Calcium sulfonate	M	00	-	-20 to 160	Fluid grease intended for cable lubrication, especially in marine environments.
G. BESLUX KBL	Inorganic	M	00	-	-10 to 150	

BIODEGRADABLE

Intended for those applications where continous loss lubrication occurs or pollution on earth. The use of these products will reduce the environmental footprint.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Biodegradable test standard	Properties
G. BESLUX BIOGREASE M- HT	Lithium	Ester	0 1 2	160 180	-25 to 120	CEC-L-33-A-94	Multipurpose biodegradable grease.
G. BESLUX ECOGREASE L-000		Ester	000	-	-30 to 120	OECD 301 B	Biodegradable and self-extinguishing grease for railway track lubrication. Complies with UNE-EN 16028.
G. BESLUX BIOGREASE M-2 FG	Inorganic	Ester	2	-	-25 to 120	CEC-L-33-A-93	Biodegradable and food grade NSF-H1 #146511.



GREASES WITH SOLID LUBRICANTS



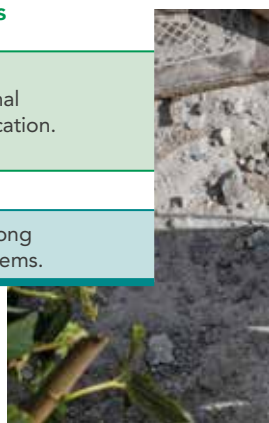
Greases with special solid additives that provide safety lubrication and greater EP and anti-wear performance.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Solid lubricant	Properties
G.A. CALCICA GRAF. N	Calcium	M	00 1 2	- 150	-10 to 90	Graphite	Graphite grease for railway applications.
G.A. BESMOLY 132	Calcium-Lithium	SS	2	160	-20 to 120	Graphite + MoS2	Grease with solids for emergency lubrication. Ideal for CV joints.
G.A. BESMOLY L-220	Lithium	M	1 2 3	190	-20 to 120	MoS2	Multipurpose grease for applications requiring MoS2 lubrication.
G.A. BESMOLY DGB		M	1/2 2	190	-20 to 120	Graphite + MoS2	Grease with high solid content.
G.A. BESMOLY CE		M	1/2	190	-20 to 120	Graphite + MoS2	Lubrication of CV joints.
G. BESLUX BMX H-1	Lithium complex	M	1	220	-15 to 130	MoS2	High MoS2 content to withstand shock stress.
G. BESLUX GFG	Inorganic	SS	1	-	-10 to 150	Graphite	High viscosity and graphite content for open gears.
G. BESLUX KOMPLEX HT-2/G	Polyurea	S	2	250	-30 to 230	Graphite	High temperature grease with graphite for safety lubrication.

CENTRALIZED GREASING

Fluid or very fluid greases capable of being pumped over long distances through centralized lubrication systems.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Properties
G.A. N.850 EP	Lithium	M	0 00 000	165	-20 to 120	Multifunctional centralized lubrication.
G. BESLUX MEC-00 GREEN	Lithium	S	00	180	-50 to 120	Intended for long centralized systems.



ASSEMBLY PASTES

Assembly paste products with very high solid content.

PRODUCT	Thickener	Base oil	NLGI consistency	Color	Temp. range (°C)	Solid Lubricant	Properties
G.A. 238	Inorganic	M	2	Copper	-10 to 1100	Cu	Assembly pastes for very high temperatures thanks to their high Cu content.
G.A. BESMOLY U-6000		M	1	Grey-black	-20 to 450	MoS2	Paste with very high MoS2 content.
G. BESLUX TRIBOPASTE L-/S	Lithium	SS	1 y 2/3	White	-40 to 400	White solids	Assembly pastes with special white solids to prevent tribocorrosion.
G. BESLUX TRIBOPASTE 32/S			2		-50 to 400		
G. BESLUX ANTI-SEIZE PASTE	Inorganic	M	1 2	Copper	-15 to 1110	Cu + Graphite + MoS2 + CaCO3	Assembly pastes for very high temperature thanks to their high Cu content.
G. BESLUX GRAFOL HT PASTE		SS	1	Grey	450	TiO2 + Graphite + MoS2	Dry lubrication paste effective to temperatures of up to 450°C.
G. BESLUX GRAFOL AL PASTE		M	1 2/3	Metalic grey	-15 to 1180	Graphite + Al	Assembly paste for very high temperatures thanks to its high Aluminum content.
G. BESLUX MARTIPASTE-08	Aluminum Complex	M	00 1/2 2	Black copper	-15 to 160	Cu + Zn + Graphite	Paste for lubricating pneumatic hammers.

ELECTRIC CONTACTS

Special greases for use in electrical applications.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Properties
G.A. RICINOL V	Thacky Vaseline		3/4	50		Protection of battery terminals.
G.A. BESSIL P-1	Inorganic	Silicone	3	-	-45 to 180	Dielectric silicone paste.
G. BESLUX CONTACT L- /S	Lithium	S	1 2 3	180	-70 to 130 -65 to 130	Conductive and protective grease.





AUTOMOTIVE



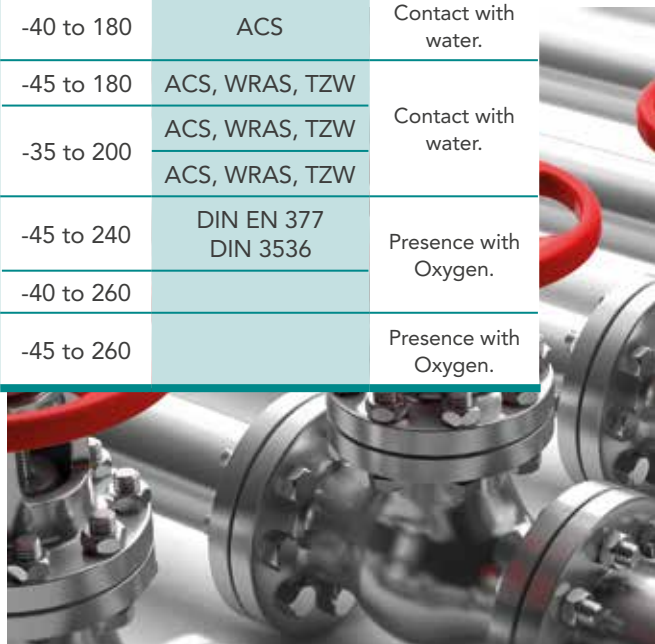
Products developed for the automotive sector with highly studied properties and long life.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Properties
G.A. UNIVERSAL 6	Inorganic	S	1/2	-	-50 to 130	Grease with high metal affinity and very low aging speed.
G.A. N.21	Lithium	Silicone	2	200	-40 to 200	Grease compatible with plastics and elastomers for lubrication of cables and window lifting mechanisms.
G. BESLUX PLEX 745	Calcium	SS	1/2	150	-50 to 100	Calcium grease for low temperatures. Meets specifications: - TL-VW 745 from SEAT-VOLKSWAGEN.
G. BESLUX PLEX 778A		S	2	210	-60 to 150	Synthetic grease for a wide temperature range. Complies with standard - TLW 778 A (VOLKSWAGEN).
G. BESLUX LIPLEX M-1/2 S	Lithium complex	S	1/2	280	-40 to 180	Greases with high plastic compatibility for a wide temperature range lubrication.
G. BESLUX LIPLEX H-1/2 S						

VALVE - FAUCET - OXYGEN

Greases for very special applications. These have very specific properties such as resistance to gases, Oxygen or are non-toxic when in contact with drinking water.

PRODUCT	Thickener	Base oil	NLGI consistency	Dropping point (°C)	Temp. range (°C)	Standard	Properties
G. BESLUX TAP SI/2 PG	Inorganic	S (PAG)	2	-	-10 to 150	ACS	Contact with water.
G. BESLUX ATOX H-2/3	Aluminum complex	S	2/3	250	-40 to 180	ACS	Contact with water.
G. BESLUX BESSIL EH-00	Inorganic	Silicone	00	-	-45 to 180	ACS, WRAS, TZW	Contact with water.
G. BESLUX BESSIL EHV-00					-35 to 200	ACS, WRAS, TZW	
G. BESLUX BESSIL EH-3			3			ACS, WRAS, TZW	
G. BESLUX FLUOR FG 152	Organic	PFPE	2	> 300	-45 to 240	DIN EN 377 DIN 3536	Presence with Oxygen.
G. BESLUX FLUOR FG 222					-40 to 260		
G. BESLUX FLUOR H		PFPE	1	> 300	-45 to 260		Presence with Oxygen.



FOOD AND BEVERAGES

Food industry approved greases formulated with ingredients that allow incidental food contact. Registered as NSF-H1 and HALAL.

PRODUCT	Thickener	Base oil	NLGI onsistency	Dropping point (°C)	Temp. range (°C)	NSF H1	Properties
G.A. BESSIL 25	Inorganic	Silicone	2/3	-	-50 to 180	111111	Non-toxic general grease for chemical environments and water presence.
G. BESLUX ATOX BT-2	Aluminum complex	S	2	250	-60 to 150	165646	Food grade grease for low temperatures or high revolutions.
G. BESLUX CAPLEX M- ATOX		SS	00	240	-30 to 130	065295	Multipurpose greases for the food industry.
			0			116792	
			1	260		025696	
			2	270	-20 to 130	025697	
G. BESLUX ATOX 1500		S	00	-	-50 to 180	165493	Centralized lubrication.
G. BESLUX ATOX H-1/2		S	1/2	260	-45 to 180	134358	High severity grease for harsh applications in the food industry. Especially suitable for feed pellet presses.
G. BESLUX ATOX ASP-2		SS	2	250	-20 to 150	134353	Non-toxic white greases for clean lubrication.
G. BESLUX ATOX SM-152	Inorganic	S	2	-	-45 to 180	165611	MOSH/MOAH free high performance grease.
G. BESLUX ATOX TF/S		S	2/3	-	-40 to 180	132167	Adhesive grease with PTFE.
G. BESLUX SULPLEX FG-2212	Calcium Sulfonate	SS	1/2	270	-30 to 170	153955	High perforamce grease for severe conditions. Special for feed pellet presses.
G. BESLUX PRESS MILL SX		S	1/2		-50 to 180	152417	Severe high-performance applications. Ideal in feed pellet presses.
G. BESLUX SULPLEX FG-462/S			2		-45 to 180	164777	
G. BESLUX FLUOR H	Organic		1	PFPE	-45 to 260	153953	Very high performance greases for extreme condition lubrication.
			2		-40 to 260	136455	
			3		-25 to 260	153954	



INDUSTRIAL OILS



GENERAL LUBRICANTS

PRODUCT	ISO VG	Base oil	V.I.	Features/Applications
DENSOLINA	46, 68, 100, 150	M	90	Gearboxes, low pressure hydraulic circuits, bearings and general lubrication.
DENSOLINA VAC	32, 100	M	90	Refined mineral base oil. Especially indicated for vacuum pumps.
BESLUX ADSA	500, 1000	M	115	High adhesion oil. Tacky looking. Textile, paper and machine-tool industries.
BESLUX MULTUS	2, 5, 10, 22	M	90	Spindle oil. Also indicated on broaching machine axes and in general high speed axes.

SPECIALTY LUBRICANTS

PRODUCT	ISO VG	Base oil	V.I.	Features/Applications
DENSOLINA RVTH	68	White oil	115	Used in food industry machinery as a release agent. Approved in the cork industry and also in the paper industry on cutting blades. NSF 3H, H1 and Halal certification.
DENSOLINA RVTM	18	White oil	115	Used as a general lubricant for food industry machinery and as a release agent. NSF 3H, H1 and Halal certification.
DENSOLINA RVT 22	22	White oil	115	Used as a general lubricant for food industry machinery and as a release agent. NSF 3H, H1 and Halal certification.
DENSOLINA Z-19	32	Plant ester	211	MOSH and MOAH free oils for use in machinery and as a release agent in the food industry. NSF 3H, H1 and Halal certification.

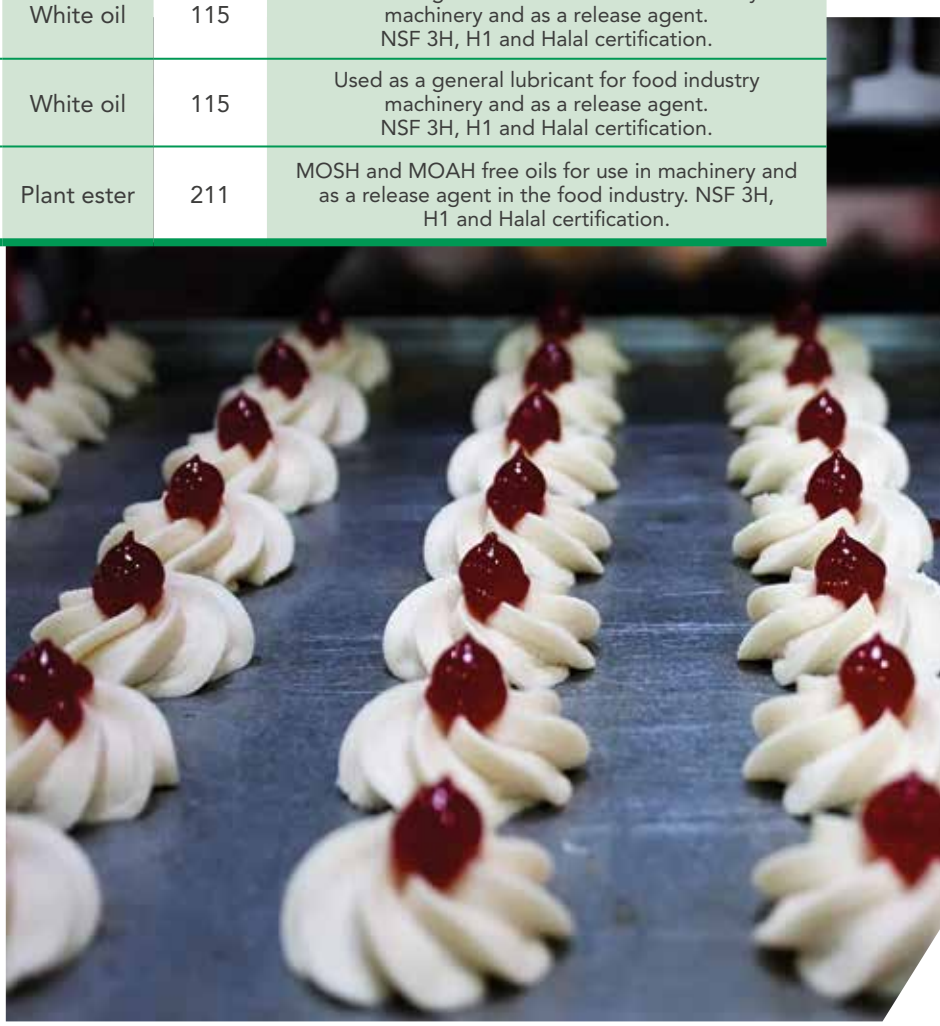
FOOD GRADE CERTIFICATIONS

NSF: Certified organization of products and services in the food sector.

H1: CNSF H1 certification for lubricants that are suitable for use in processing lines where there may be incidental contact with food.

H2: NSF certification for lubricants that are suitable for working on lines or surfaces where there is no food contact.

3H: NSF certification for lubricants that are suitable for work as unmolding release agents. Applied on moulds, ovens and other equipment where there is direct contact with food.



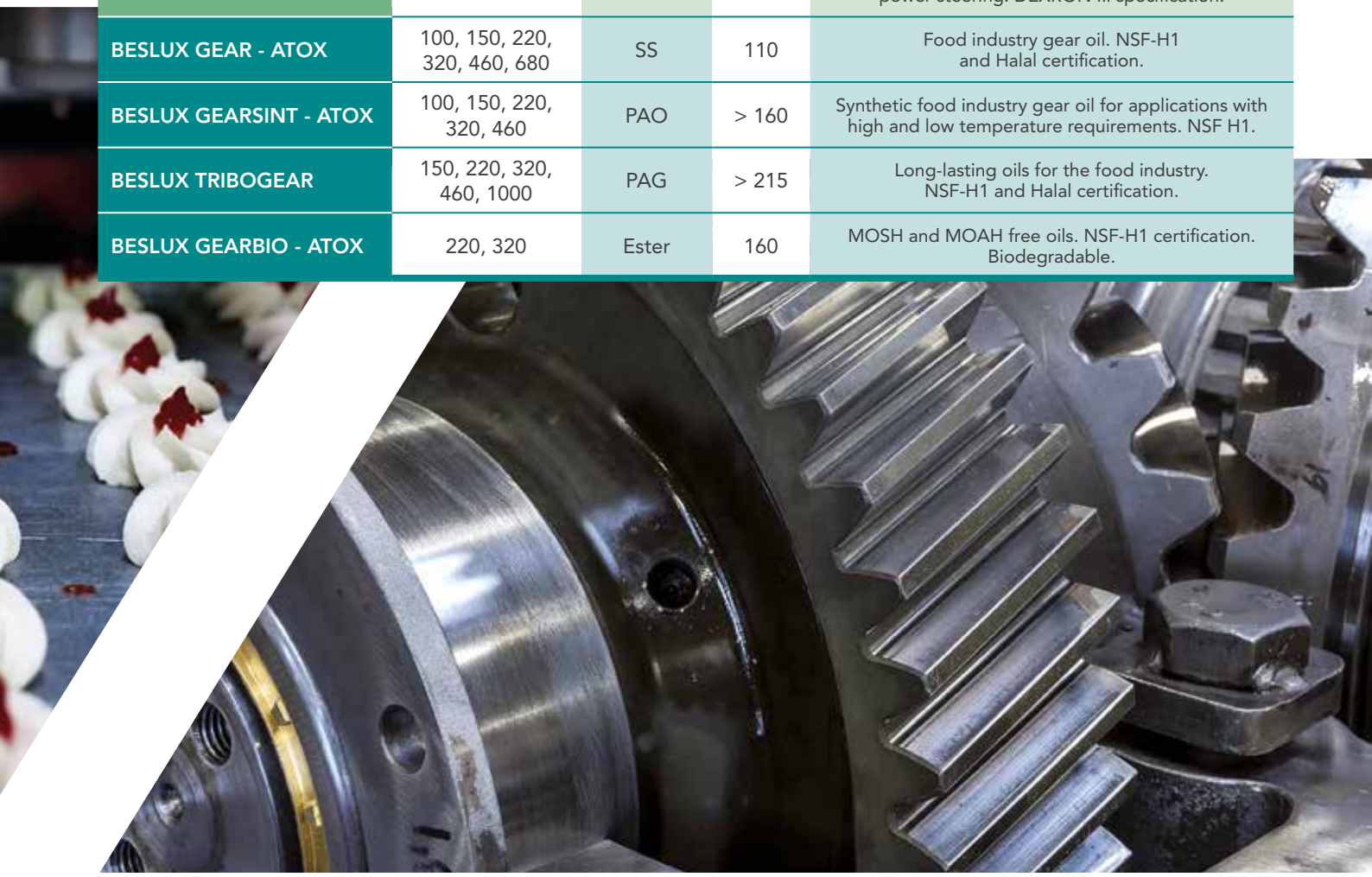


GEAR OILS

PRODUCT	ISO VG	Base oil	V.I.	Features/Applications
EXTRA GEAR	46, 68, 100, 150, 220, 320, 460, 680, 1000	M	95	Extreme pressure oil for gears, bearings, reducers and transmissions DIN 51517 PART 3 (cat. clp).
BESLUX GEAR XPM	100, 150, 220, 320, 460, 680, 1000	M	95	Special E.P additivation against "Micropitting". Flender approval.
BESLUX GEARSYNT XP	68, 150, 220, 320, 460, 680	Synthetic PAO	160	Special E.P additivation against "Micropitting". Wide temperature range of use.
BESLUX SINCART	68, 150, 220, 320, 460	Synthetic PAG	210	Special long lasting gear oil. Neutral to metal materials, Al and Cu alloys.
BESLUX SINCART W	100, 150, 220, 320, 680	Synthetic PAG	225	Lubrication with water presence, high temperature use and very long oil life.

SPECIALTY GEAR OILS

PRODUCT	ISO VG	Base oil	V.I.	Features/Applications
FLUID DRIVE DX-II	7,5 cst (100°C)	M red	160	Automatic transmissions and hydraulic circuits. DEXRON II specification.
FLUID DRIVE DX-III	7,4 cst (100°C)	SS	185	Automatic transmissions, hydraulic circuits and power steering. DEXRON III specification.
BESLUX GEAR - ATOX	100, 150, 220, 320, 460, 680	SS	110	Food industry gear oil. NSF-H1 and Halal certification.
BESLUX GEARSINT - ATOX	100, 150, 220, 320, 460	PAO	> 160	Synthetic food industry gear oil for applications with high and low temperature requirements. NSF H1.
BESLUX TRIBOGEAR	150, 220, 320, 460, 1000	PAG	> 215	Long-lasting oils for the food industry. NSF-H1 and Halal certification.
BESLUX GEARBIO - ATOX	220, 320	Ester	160	MOSH and MOAH free oils. NSF-H1 certification. Biodegradable.



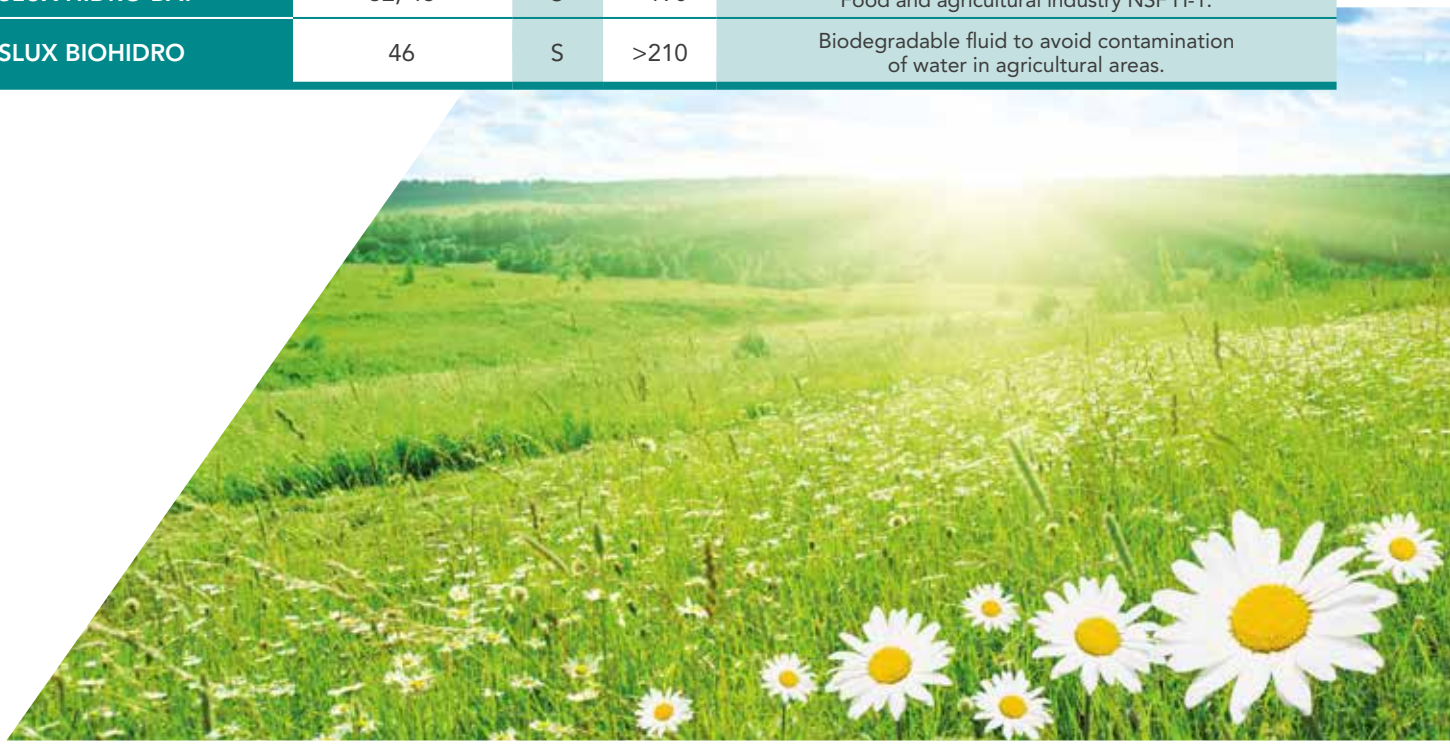
HYDRAULIC FLUIDS

HYDRAULIC OILS

PRODUCT	ISO VG	Base oil	V.I.	Features/Applications
HIDRAULIC B	10, 32, 46, 68	M	100	ISO HL. Machine-tools, servomechanisms, forklifts and elevators.
FLUID DRIVE HM	22, 32, 46, 68, 100	M	100	High pressure ISO 11158 Cat. HM, DIN 51524 (Part 2), DENISON HF, EATON VICKERS.
FLUID DRIVE B	32, 46, 68	M	120	High pressure ISO 11158 Cat. HM, DIN 51524 (Part 2), DENISON HF, EATON VICKERS. Ideal against temperature changes.
BESLUX DIVOL HV	22, 32, 46, 68	M	150	Excellent water separation and behavior against temperature changes. Cat. HV and HVLP. DIN 51524 (Part 3) ISO 11158.
BESLUX HIDRO HV	46, 68	M	180	Elevators, hydraulic elevators, O.P machinery and forestry. DIN 51524 (Part 3) HVLP Cat. ISO 11158 HV.
BESLUX ALINVIS	15, 32	M	245/380	Special for extreme temperatures. Aeronautical applications.
BESLUX DRIVE HLP/SC	32, 46, 68	M	>105	Ashless microfiltered oil. Specifications DENISON CINCINNATI, VICKERS. ISO 11158 Cat. HM and DIN 51524 (Part 2) HLP.
BESLUX DRIVE HV/SC	46, 68	M	150	Plastics and robotics industry. High viscosity index & ashless oil. ISO 11158. Cat. HV. DIN 51524 HVLP (Part 3).

NON-TOXIC / BIODEGRADABLE OILS

PRODUCT	ISO VG	Base oil	V.I.	Features/Applications
BESLUX ATOX	22, 32, 46, 68, 100	M	>105	Multifunctional hydraulic fluid for the food industry. Approved by NSF H-1.
BESLUX DIVOLSINT ATOX	32, 46, 68	S	>150	Synthetic hydraulic fluid for the food industry, NSF H-1 approved.
BESLUX HIDRA-ATOX	46, 68	S	>190	Vegetable origin synthetic oils. Free of hydrocarbons. Biodegradable. Food and agricultural industry NSF H-1.
BESLUX HIDRO-BAT	32, 46	S	>190	
BESLUX BIOHIDRO	46	S	>210	Biodegradable fluid to avoid contamination of water in agricultural areas.





SPECIALTY HYDRAULIC OILS

PRODUCT	ISO VG	Base oil	V.I.	Features/Applications
HIDROSECUR A-1100	46	Glycolwater		Red fire-resistant HFC hydraulic fluid for circuits and mechanisms in Steel, mining and foundry applications.
HIDROSECUR D	46, 68	S	195	HFDU fire-resistant biodegradable synthetic hydraulic fluid. Indicated against possible leaks and possible environmental contamination.
HIDRAULIC JD U.T.T.O	68 10 w 30	M	125	Transmissions, hydraulic circuits and submerged brakes. Ideal for agricultural industry and public works.
NET-GUM	25-30 cst	M		Fluid for cleaning circuits with mineral oils. Great detergency power. Removes and cleans hydraulic circuits of sludge and particles.

PNEUMATIC OILS

PRODUCT	ISO VG	Base oil	Demulsification rate	Features/Applications
BESLUX NEULUB	15, 22, 32, 46	SS	40/37/3	Protects the life of valves, cylinders and pneumatic equipment in general.



HEAT TRANSFER OILS

PRODUCT	ISO VG	Base oil	Temp. range	Features/Applications
BESTERM HT	32	M	-12°C/ 300°C	Mineral paraffinic fluid for closed circuits. Designed for circulation with pumps and thermostatic baths.
BESTERM HT-300	300	M	-9°C	High viscosity thermal fluid indicated for open circuits.
BESLUX TERM	22	S	-25°C/ 320°C	Synthetic highly additivated fluid. Greater longevity compared to mineral based. Improves heat transfer and prevents circuit corrosion and sludge formation.



SILICONE OILS

PRODUCT	ISO VG	Base oil	Features/Applications
BESSIL F-50	50 cst (25°C)	Silicone	Colourless dielectric and cooling silicone oil for transformers. Low pollution levels and high flash point. -55°C to 280°C.
BESSIL F-100	350	Silicone	Applications with high temperatures and/or presence of water. -45°C to 305°C. Food grade NSF H1 approved. Colourless oil.
BESSIL F-10.000	10.000	Silicone	



OILS FOR GUIDES AND CHAINS

PRODUCT	ISO VG	Base oil	Temp. limit	Features/Applications
BESLUX LUDER	32, 46, 68, 100, 150, 220	M		"Anti-stick-slip", anti-corrosive and antioxidant great adhesion oil. For horizontal guides, mixed hydraulic-guides and special rolling guides systems. Recommened on CNC machines.
BESLUX CAMIN WR	150, 460	M		Tacky water resistant chain oil intended for very humid and wet environments. For spraying installations, drip or brush.
BESLUX CAMIN 4200	4200	M	150°C	High viscosity chain oil. Great adhesion, anti-splash and anti-drip. For application temperatures up to 150°C.
BESLUX RAMCA	100, 150, 220, 320, 4200	Ester	250ªC	Low residue synthetic oils for chain lubrication up to 250°C. High oxidation stability at high temperatures. Offers excellent protection against wear and cleaning.
BESLUX CHAIN 2160 PB	260 cst at 40°C	Synthetic Ester	320°C to 280°C	Synthetic oil for lubricating chains in tunnels and ovens that work at temperatures from 320°C to 280°C. Bakery ovens.
BESLUX GEAR ATOX F NSF	68,150, 220	White oil		Tacky non-toxic semi-synthetic oil for food industry chains. Ideal on cutting lines or food transportation. Incidental contact with food.
BESLUX CHAIN ATOX NSF (Serie 3020 y 3500)	320	Ester	220°C	Synthetic oils for the food industry in general, where high temperatures occur, ovens, drying tunnels, etc. 220°C.

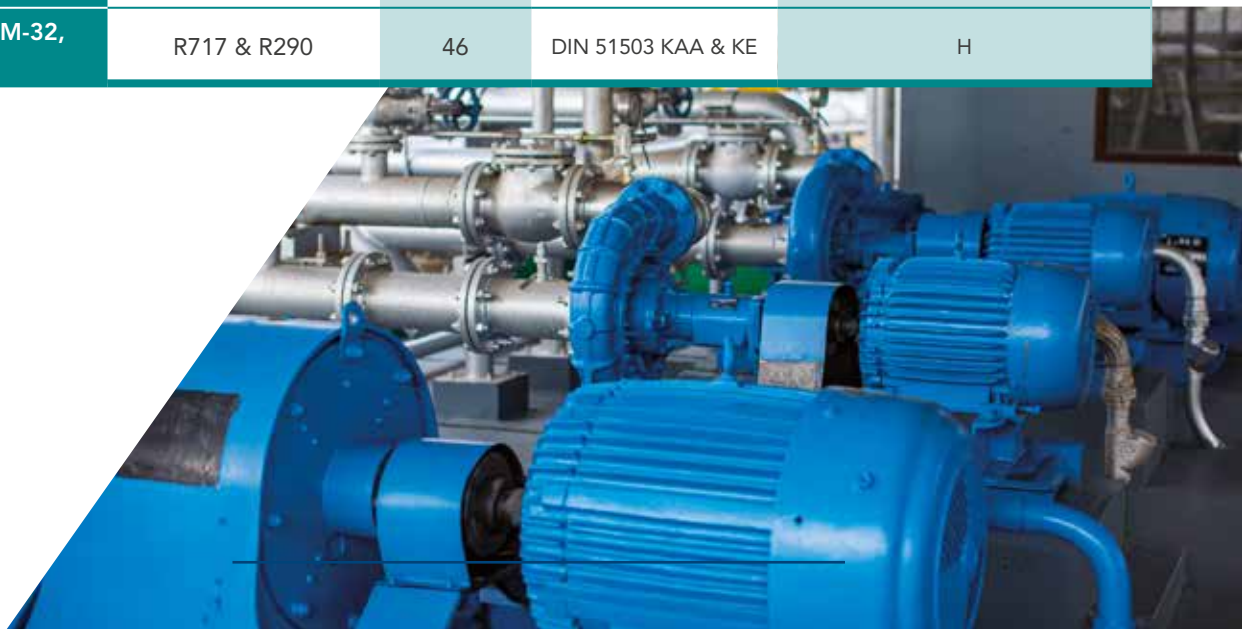


COMPRESSOR OILS

PRODUCT	ISO VG	Base oil	Working hours	Components			
				Piston	Screw	Vane	Vacuum pumps
BESLUX AIRLUBE	46	M			●		
	68			●	●		
	100			●		●	
	150			●		●	
BESLUX AIRSINT	100	Synthetic Ester		●		●	●
BESLUX ULTRASINT	46	Synthetic PAO's			●		
BESLUX AIR-ATOX	32	Synthetic PAO's			●		●
	46				●		
	68			●	●		
	100					●	●
	150			●		●	
BESLUX AIR-CRK	32	SS			●		●
	46				●		
	68			●	●		
BESLUX AIR-SPEED IRS	46	PAG			●		
BESLUX MINERAL W-46	46	M					

REFRIGERATION COMPRESSOR OILS

PRODUCT	Compatible gases	ISO VG	Standard	Base oil
BESLUX BESARTIC 68	R717, R290 & R744	68		Synthetic PAO
BESLUX BESARTIC M-32, 46, 68	R717 & R290	46	DIN 51503 KAA & KE	H





METALWORKING PRODUCTS

NEAT CUTTING OILS

PRODUCT	ISO VG	Base oil	Material			Applications	
			Steel	Aluminum	Brass	Machining	Grinding
MACHINING PRODUCTS							
BESCUT 145	20,5 - 23	M	●	●	●	✱	✱
BESCUT 148	20,5 - 23	M	●	●	●	✱	✱
BESCUT 149	35 - 40	M	●	●	●	✱	✱
BESCUT 154	11 - 14	M	●	●		✱	
SPECIALTY PRODUCTS							
BESCUT E	2,5 - 2,7	M	●			✱	
BESCUT ELECTRON	2 - 2,2	M	●			✱	
BESCUT INOX MATIC	150	M	●			✱	
EASY-CUT	>500	M	●			✱	
PULOIL AL	4 - 7	M	●	●		✱	
HIGH PERFORMANCE PRODUCTS							
SERCUT 362	22 - 24	HC	●			✱	✱
SERCUT 360	5 - 6,5	HC	●	●			✱
SERCUT 365	11 - 14	HC	●	●			✱
SERCUT 384	9 - 10,5	GTL	●	●			✱
MQL MACHINING PRODUCTS							
SERCUT 173	34 - 42	S	●	●		✱	
SERCUT 177	41 - 50	S	●	●		✱	
SERCUT 188	30 - 35	S	●	●		✱	
SYNTHETIC MACHINING PRODUCTS							
SERCUT 130	7,5 - 10,5	S	●	●	●	✱	
SERCUT 137	16 - 18	S	●			✱	
SERCUT 139	28 - 32	S	●			✱	✱



WATER SOLUBLE CUTTING OILS (Besal series)

PRODUCT	Hardness H2O °HF	Base	Materials			Applications	
			Steel	Aluminum	Brass	Machining	Grinding
BESAL 5	Up to 50	M	●	●	●	✱	
BESAL G-2	All range	S	●				✱
BESAL 35	20 - 100	SS	●			✱	✱
BESAL 273	5 - 40	SS	●	●		✱	✱
BESAL 455	40 - 80	M	●	●	●	✱	

WATER SOLUBLE CUTTING OILS (Servol speciality series)

PRODUCT	Hardness H2O °HF	Base	Materials			Applications	
			Steel	Aluminum	Brass	Machining	Grinding
SERVOL 330	5 - 40	M	●	●	●	✱	✱
SERVOL 550	5 - 50	M	●	●	●	✱	
SERVOL 731	Up to 50	PS	●			✱	✱
SERVOL 2502	5 - 40	M	●			✱	
SERVOL 2602	3 - 30	SS	●			✱	✱
SERVOL 3612	5 - 40	SS	●	●		✱	✱
SERVOL 4631	5 - 25	PS	●	●	●	✱	✱
SERVOL 5602	2 - 70	PS	●			✱	✱
SERVOL 2	10 - 100	S	●			✱	✱
SERVOL 108	Up to 50	S	●			✱	✱
SERVOL RECT	Up to 30	S	●				✱
SERVOL MD	Up to 30	S	●				✱



METALFORMING PRODUCTS

STEEL STAMPING AND FORMING OILS

PRODUCT	ISO VG	Welding load	Features/Applications
BESTRIL 410	90	800	Steel stamping and drawing oil. Easily washable.
BESTRIL 411	70	600	Steel stamping and deep drawing oil, compatible with BESTRIL ELM-334.
BESTRIL 450	180	800	Steel stamping and deep drawing oil.
BESTRIL 470	600	800	Steel stamping and deep drawing oil.
BESTRIL 490	130	800	Steel stamping and deep drawing oil.
BESTRIL 715	8	600	Oil inteded for stamping, deformation and drawing of Steel. High performance in slow deformation processes.



MULTIMETAL STAMPING AND FORMING OILS

PRODUCT	ISO VG	Metals	Features/Applications
BESTRIL 710	8	Copper, Brass	Fluid oil for laminating, stamping and die-cutting.
BESTRIL 249	23	Aluminum	Special oil for stamping and deformation of Aluminum.
BESTRIL 225	60	Aluminum, Steel, galvanized Steel	Aluminum drawing oil.
BESTRIL ES50	50	Aluminum, Copper, Steel, galvanized Steel	Copper stamping oil.
BESTRIL ELM-334	150	Steel, INOX, galvanized Steel	Steel stamping fluid for high speed magnetic metal sheet.
BESTRIL 912	Consistent	Steel, INOX, galvanized	Water based gel product from Aluminium and Steel deformation and stamping. Mineral oil free. Also available with diluted versions.
BESTRIL 952	68	Steel, INOX, galvanized	Fluid gel for tube vending. Also used for stamping processes diluited at 20% with water. Very low residue formation.



STAMPING OILS WITH SOLVENTS

PRODUCT	Viscosity	Flash point	Features/Applications
BESTRIL 532	5	110	High flash point solvent based fluid for stamping and deformation of Steel, galvanized Steel and Aluminum.
BESTRIL 570	1	66	Special fluid for Steel and stainless Steel stamping.
BESTRIL 580	1	58	Steel, Copper and Aluminum stamping oil.
BESTRIL 590	1	58	Fluid for forming galvanized sheet, Steel and galvanized Steel stamping.
BESTRIL 595	-	61	Steel stamping fluid for high speed magnetic sheet metal.
BESTRIL 265D	2,4	74	Fluid for forming, stamping and die-cutting of Aluminum. Thermal degreasing.
BESTRIL 248	6	110	High flash point solvent-based fluid designed for aluminum deformation and stamping. Thermal degreasing.

ANTI-CORROSIVES

PRODUCT	Nature	Salt spray test	Features/Applications
RUST KEEPER 500	Solvent + oil	85 h	Water-repellent and water-displacing anticorrosive, oily film.
RUST KEEPER 555	Solvent + oil	48 h	Water-repellent and water-displacing anticorrosive, very thin oily film.
RUST KEEPER 555-E	Solvent + oil	30 h	Anticorrosive that displaces water, oily film and high flash point, contains solvent.
RUST KEEPER 999-MI/R	Solvent + oil	90 h	Red oily film anticorrosive, Easily to observed it if applied properly.
RUST KEEPER GSB	Very fluid oil	80 h	Very fluid VOC-free anticorrosive, very thin anticorrosive film.
RUST KEEPER VGH	Oil	10 h	Deformation oil + protection, ideal whenever a longer protection product is required compared to a conventional stamping oil.
RUST KEEPER AC-VI/1	Oil	46 h	Process + protective oil, for polishing and stretching bars.
RUST KEEPER AD	Oil	80 h	Anticorrosive oil with high viscosity and great adhesion to prevent dripping. Offers a stable and good homogeneous protective film.
RUST KEEPER 5900	Oil	32 h	Water-displacing anticorrosive oil.
RUST KEEPER 923	Solvent + wax	165 h	Anticorrosive waxy film to protect parts for long-term storage periods.
RUST KEEPER ELM-430	Solvent + wax	600 h	Anticorrosive waxy film to protect parts for long-term storage periods and during sea transportation. Intense brown color.
RUST KEEPER 924	Solvent + wax	1000 h	Anticorrosive waxy film to protect parts for long-term storage periods and during sea transportation.
RUST KEEPER S-M	Emulsifiable oil	ND	Water based anticorrosive for tube forming and subsequent temporary protection.

DEGREASERS

PRODUCT	Base	Features/Applications
BESPRUB 40, 50	Solvent	Aliphatic based. Easily removes oil, grease and coolants.
BESPRUB 460, 70		Isoparaffins. Recommended for Aluminium stamping processes.
DESENGRAS 396 CS	Water (alkaline)	Alkaline degreaser for multi-metal application. Soluble in water.
DESENGRAS ECO-20	Water (alkaline)	Water soluble degreaser. Biodegradable.
DESENGRAS HDK	Emulsifiable solvent	Water soluble degreaser.
DESENGRAS HDK-2		Water soluble degreaser. Label without risk to the environment.
DESENGRAS HDK-3		

LUBRICANTS, COOLANTS AND AUTOMOTIVE PRODUCTS

BRADOL AUTOLEO XHP 10W40
Synthetic oil API, SL/CF, ACEA B3-98#2, A3-02

BRADOL MULTIGRADO SHPD 15W40
Motor oil API, CI-4, CF/SL/E7, A3/B4

BRADOL EUROTRUCK PLUS 15W40
Motor oil API, CI-4, CF/SL/E7, A3/B4

S GEAR

BRADOL ANTICONGELANTE ECO
Non-toxic antifreeze.

BRADOL ANTICONGELANTE 30% VERDE -18°C

BRADOL ANTICONGELANTE CONCENTRADO (OAT)
Concentrated antifreeze.

BRADOL ANTICONGELANTE 50% -38°C

BRADOGEL
White, abrasive, very energetic detergent paste.

DETERMAN Y DETERLIM
Hand washing gel.

BRALIM
Gel for personal hygiene.

BRADOL DOT-4
Brake fluid.





AUTOMATIC LUBRICATION



BESLUX LUBE single-point automatic lubricators allow constant lubricant dosage from one month to one year by selecting the dosage time on the dial located on the top of the lubricator.

GREASE

PRODUCT	NLGI grade	Thickener	Features
BESLUX LUBE X2	1/2	Lithium complex	Multifunctional grease for all types of applications. Tªs -20 to 150°C.
BESLUX LUBE ALFA	0/1, 2	Polyurea	Blue grease for high speeds and long life. Tªs from -50 to 180°C.
BESLUX LUBE HT-2	2	Inorganic	High temperature grease with solid lubricants. Tªs from -35 to 200°C.
BESLUX LUBE M-2/BM	2	Lithium complex	Grease with solid lubricants for high loads. Tªs from -20 to 150°C.
BESLUX LUBE KM	0, 2	Polyurea	Multifunctional long-life grease. Tªs from -20 to 150°C.
BESLUX LUBE SH PLUS	1/2	Calcium Sulf.	Grease for high loads and humid environments. Tªs from -15 to 160°C.
BESLUX LUBE L-2 EP	2	Lithium special	Grease for high speeds and loads. Tªs from -40 to 160°C.
BESLUX LUBE FG-2	2	Aluminum complex	Non-toxic multifunctional grease. Tªs from -20 to 130°C.
BESLUX LUBE ATOX H-1/2	1/2	Aluminum complex	Non-toxic grease for high loads and speeds. Tªs from -45 to 180°C.
BESLUX LUBE ATOX SM 152	2	Inorganic	Load-resistant MOSH/MOAH-free non-toxic grease. Tªs from -45 to 180°C.

OILS

PRODUCT	Viscosity	Base oil	Features
BESLUX LUBE CGLP-220	220	M	Oil for guides with anti stick-slip additives.
BESLUX LUBE R-320	320	S	Synthetic oil for chains and mechanisms at high Temp. up to 230°C.
BESLUX LUBE 150 WR	150	M	Protective and anticorrosive oil with outstanding antiwear properties.
BESLUX LUBE ATOX 68	68	SS	Food industry multifunctional lubricant, 68 cSt.
BESLUX LUBE ATOX 220	220	SS	Food industry multifunctional lubricant, 220 cSt.



AEROSOLS



OILS

PRODUCT	Applications	Main Component	Features
BESLUX BASIC MULTIUSO	Multipurpose	Mineral oil	All-in-one general lubrication oil. Penetrant, drives out moisture, protects surfaces from corrosion.
BESLUX AFLOJATODO	Release agent	Mineral + Black solids	Unblocking and loosening spray with MoS2 for rusty mechanisms.
BESLUX ANTIHUMEDAD	Protective	Anticorrosives	Water-displacing and anti-corrosive aerosol for protecting surfaces against rust.
BESLUX FLUOR TF SPRAY	Dry lubrication	PTFE	Dry PTFE film that lubricates and protects. It prevents dust and dirt adhesion from sticking to the suface.
BESLUX MOLY SPRAY PLUS	Dry lubrication	MoS2	Dry MoS2 film resistant to high loads and temperatures up to 450°C.
BESLUX KTS	Clean lubrication	Synthetic oil (PAG)	Aerosol with cleaning and lubrication properties, enhanced with great penetrating power.
BESLUX CADENAS	Chains	SS oil + MoS2	Very adherent and anti-wear oil with water repellent properties. Useful to temperatures of up to 180°C.
BESLUX RAMCA 220 SPRAY	Chains	Synthetic oil	Good adhesion and anti-wear chain oil with very low oxidation rates at high temperatures, useful even up to 230°C.
BESLUX CAMIN 150 WR	Chains	Mineral oil	Chain lubricant in humid environments with antioxidant and water repellent additives.
BRADOL CADENAS PLUS	Chains	Semi-synthetic oil	Extremely adherent and water resistant oil for chain lubrication.
BESLUX DESMOLDEANTE DEX-4	Release agent	Synthetic oil	Silicone-free release agent that does not stain. It can be used as an anti-spatter on welding processes.
BRUSIL SPRAY	Release agent	Silicone oil	Silicone spray for high temperature lubrication.
BESLUX SOLDADURA	Anti-spatter	Mineral oil	Surface protector against metal chip projections generated during welding processes.
IKV-FLUOR 70 SPRAY	Extreme environment	PFPE	Fluorinated oil for very severe contaminated conditions. Good compatibility with plastics.

GREASES

PRODUCT	Applications	Main Component	Features
BESLUX GRASA SPRAY PLEX 778A	Multipurpose	Lithium	Multi-purpose grease with long-life synthetic oil.
BRADOL CADENAS	Chains	Lithium-calcium	Tacky grease for chain lubrication. Offers protection against water and rust.
BESLUX CABLES	Cables	Inorganic	Fluid grease with black solids for deep lubrication of cables. Penetrates the inner layers of the cable and sticks to cable surface.
BESLUX ENGRANAJES ABIERTOS	Gears	Aluminum komplex	Very adherent fluid grease with black solids for gear lubrication.
BESLUX ANTISEIZE SPRAY	Anti-seize paste	Inorganic	Conductive, anti-seize and anticorrosion paste with high content in cooper and graphite.
BESLUX GRASA SPRAY AD	Adherent Grease	Polyurea	Extreme adherent grease indicated for mechanisms under heavy loads.



DEGREASERS

PRODUCT	Applications	Main component	Features
BRADOL TOP CLEANER	Cleaner	Solvent mixture	Removes grease, oils and other dirt without leaving residue.
BRADOL LIMPIA MOTOR	Cleaner	Solvent mixture	Degreaser formed by solvents with low toxicity and quick degreasing properties.

FOOD GRADE AEROSOLS

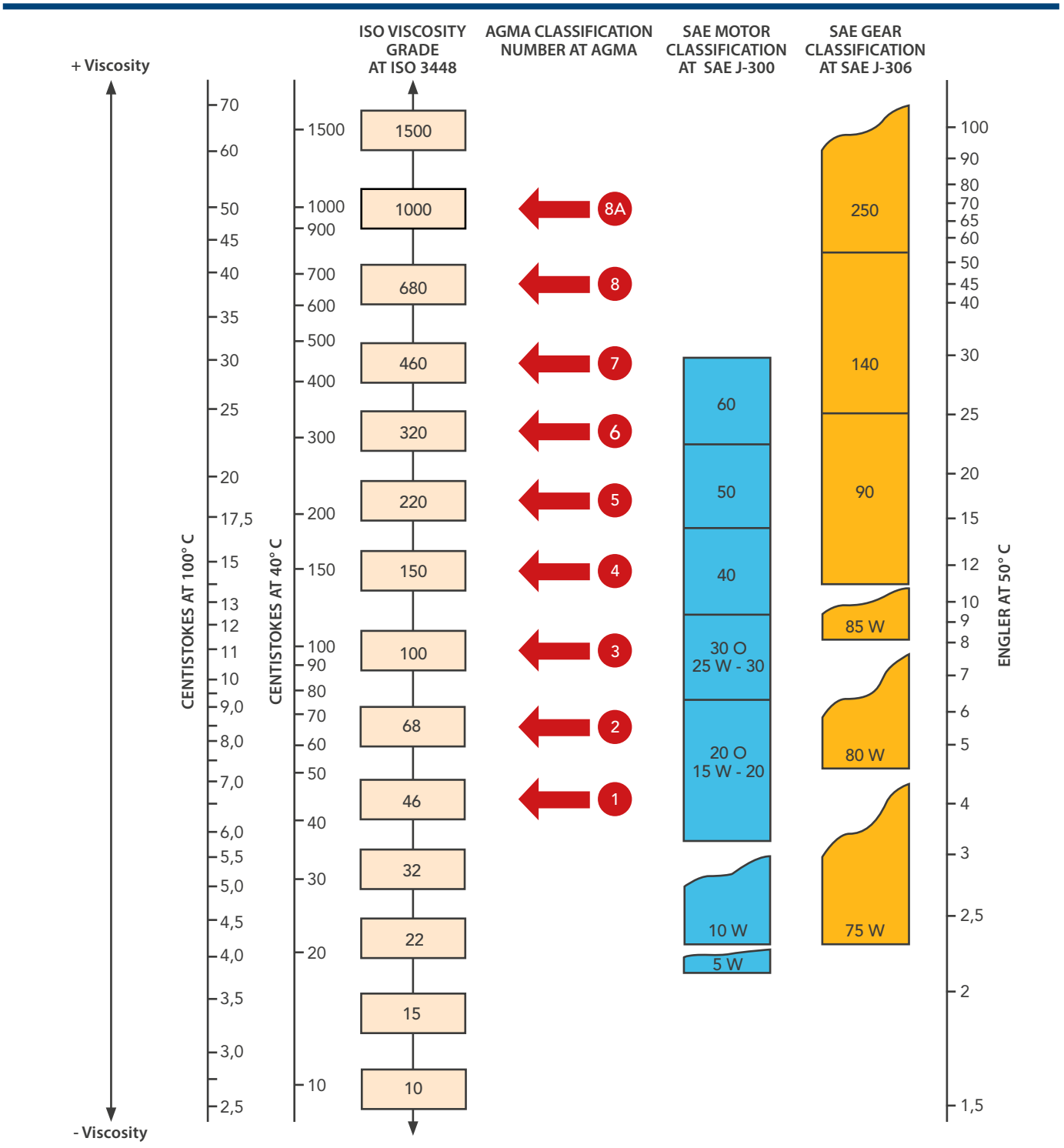
PRODUCT	Applications	Main component	Features
BESLUX FLÚOR LIQ ATX	Non-toxic multipurpose	Synthetic oil + PTFE	Hihgh performance wet general lubrication with good anti-corrosion and low friction properties. Food industry.
BESLUX FG 10 SPRAY ATX	Non-toxic lubricant	Synthetic + White solids	Anti-seize and loosening aerosol with BN (Boron Nitride) for the food industry. Offers dry lubrication at high temperatures.
BESLUX BLANCO CADENAS ATX	Non-toxic chain	SS oil + PTFE	Non-toxic and extremely tacky chain oil aerosol. Waterproof.
DENSOLINA RVTH ATX	Non-toxic mold release agent	Mineral oil	Colourless White oil for general lubrication as a mould release agent for the food industry.
BESSIL F-100 SPRAY ATX	High temperatu-re lubrication	Silicone oil	Non-toxic silicone spray for high temperature lubrication.
BESLUX GRASA SPRAY UNIVERSAL ATX	Non-toxic multipurpose	Inorganic + PTFE	White synthetic and adherent grease for high temperatures from -40 to 180°C.
BESLUX SULPLEX FG SPRAY ATX	Non-toxic multipurpose	Calcium sulfonate	Synthetic grease for high loads, waterproof and anticorrosive.
BESLUX CLEANER ATOX ATX	Non-toxic cleaner	Solvent mixture	Degreaser for the food industry without direct contact with food.

ATX Non-toxic



COMPARATIVE CLASSIFICATION OF VISCOSITIES

In this viscosity conversion table, viscosities can be transformed into one another: ISO Grade, Centistokes at 40°C, Centistokes at 100°C (assuming V.I. approx. 100), AGMA Number, SAE Engine Grade, SAE Gear Grade and Engler degrees at 50°C (also assuming V.I. approx. 100), in accordance with the standards mentioned in each case.



At Brugarolas we invite you to discover our company. Visit our website, browse through our history and vast product portfolio, view our corporate video and see the dimensions of our capabilities and take the opportunity to explore our world presence in a wide variety of industrial sectors.

Contact us and learn about our tailor-made services together with our technical sales experts who will advise and help you choose the correct product for the correct lube point with the most competitive conditions. The experience of the Brugarolas sales team is part of our strength as a company, with many years of experience vouchering us we are commited to obtaining the highest perfomance to any industrial application and have been doing so since the company was founded. An inherited knowledge that we renew year after year through experience with our clients. Learn about our service optimization, lubricant solutions to reduce energy and favor an environmental friendly approach.



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SEPTEMBER 2024