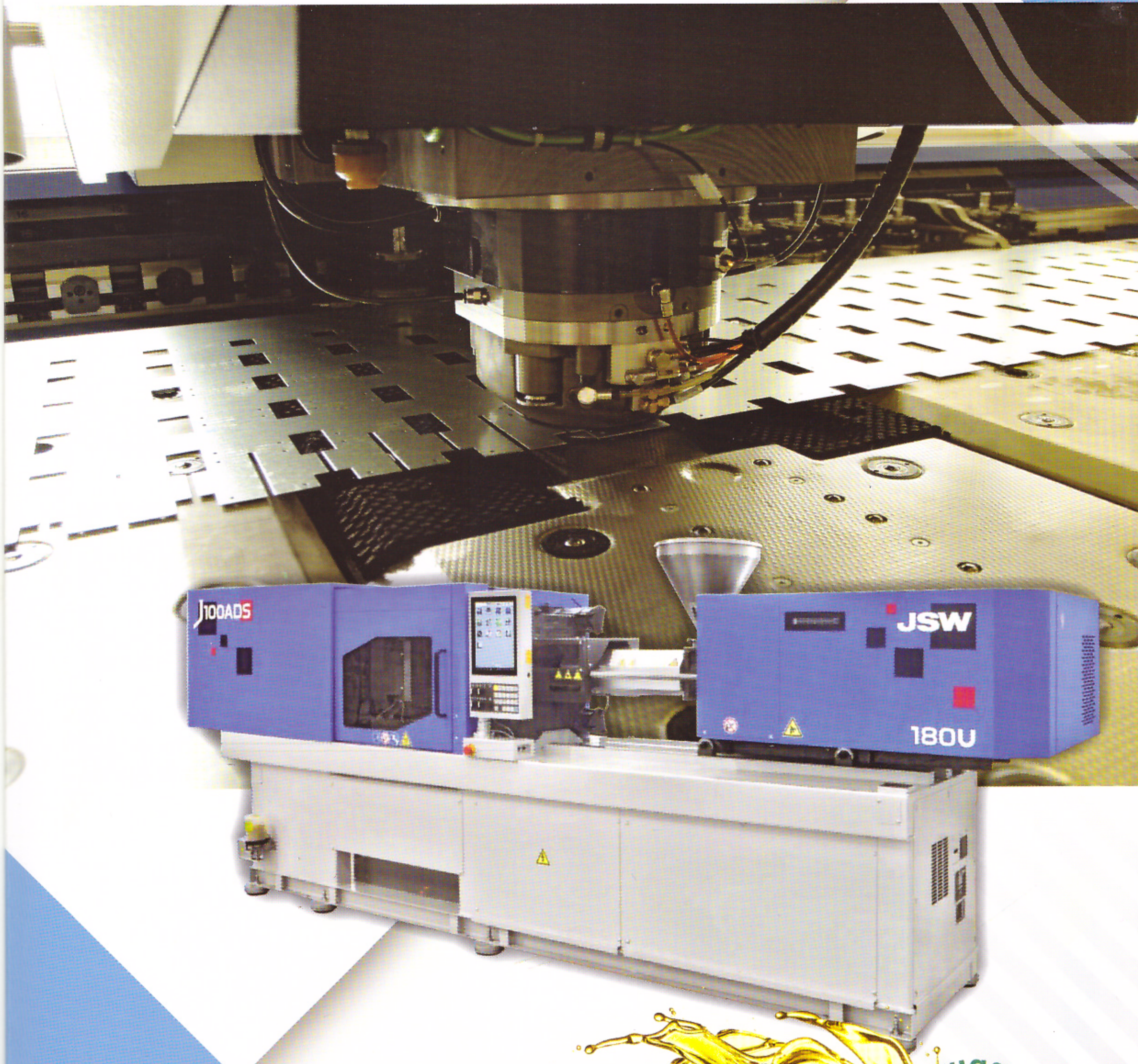




Industrial lubricants



“A Global Supplier
Since 1885”





Brugarolas S.A. is a chemicals company with a long history of being dedicated to the production of all types of grease and lubricants, fluids for use in metallurgy, fluids for metal straining and other general chemical products for an endless number of industrial applications.

Since 1885, Brugarolas has continued to amass experience and knowledge in all areas of industrial activity, creating a portfolio of products and solutions of the broadest variety in the market. Over 3,000 products endowed historical and technological depth. Products developed to carry out common applications, special applications and still newer developments. At present, the products and services offered by Brugarolas are available in over 60 countries.

Brugarolas has its manufacturing headquarters in Rubí. Situated 26 kilometres from the city of Barcelona, it possesses excellent commutes, by highway as well as public transport, allowing for quick commutes via the port of Barcelona, Spain and the rest of the world. The logistics and distribution centre is situated 2 kilometres from the factory in an enclave that is easily accessed from the highway. With a surface space of over 60,000 m² and 35,000 m² of construction, Brugarolas has a production capacity in excess of 60,000 annual tonnes.

Brugarolas S.A. continues to advance in a very competitive and global market, in which the satisfaction of our clients is of primary concern with regards to our objectives. Brugarolas finds its strength in its personnel team, which has experience and training of the highest order, making use of vast technical resources and always available to improve its industrial practices as well as its products and services.

HIGH PERFORMANCE PASTES

PRODUCT	APPLICATION AREAS	ADVANTAGES AND BENEFITS	OPERATING TEMP RANGE (°C)	APPEARANCE	DENSITY	WORKED PENETRATION @25C (0.1MM)	DROP POINT (°C)
G. BESLUX WHITE LUB.PASTE	Intended for mounting shaft and bushing and chucks	Avoid wear, scratches, scoring etc. Builds a high resistance and low friction coefficient thin film. Wide operating temperature protect against tribocorrosion.	-20 to 155	White	1.1 gr/cm ³	220 to 250	200
G. Beslux Anti -Seize Paste- 1	Antiseize and anticorrosion paste for high temperature	Protection from flaying, corrosion, seizing. Allows to recover and reuse the parts. Resists high load and long life and high efficiency. Can be used up to 1100°C	-15to 1100	Dark Copper ish	1.20 gr/cm ³	265 to 295	350

HIGH PERFORMANCE OILS AND LIQUIDS

PRODUCT	APPLICATION AREAS	ADVANTAGES AND BENEFITS	APPEARANCE	VISCOSITY @40(°C)	DENSITY @15(°C) gr/ml	Flash point Min(°C)
FLUID DRIVE HM	Highly refined hydraulic fluids for stringent working conditions.	Highly refined hydraulic fluids for stringent working conditions. They Contain-wear, anticorrosive, anti-oxident & antifoaming, additives. Meet the ISO 6743 standard HM class & Din 51524 part2, HLP Class	Amber Fluid	22,32,46,68,100	0.871	230
BESLUX LUDER	Range of Superior oils for machinery & slide -ways. They contains special anti-stick-slip additives. Meet ISO 6743/4 standard, DIN 51517 part 3 and Cincinnati P-47 and P-53 Standard	Provides a slide -way lubrication with vibration less smooth sliding, even under heavy loads and low speed	Amber Fluid	32,46,68,150,220	0.91	200



PRODUCT	APPLICATION AREAS	ADVANTAGES AND BENEFITS	APPEARANCE	VISCOSITY @40(°C)	DENSITY @15(°C) gr/ml	Flash point Min(°C)
BESLUX MULTUS	Superior quality highly refined mineral oils with very low viscosity. Specially Intended for centralized lubrication, Bath, mist or absorber of the drip in high speed mechanisms such as heads, bearings, spindles, automatic clutches & high spinning speed shafts. They meet FC& FD class per ISO 3498 Standard	Very low wear due to good antioxidant and antiwear properties. Able to lubricate the bearings and act as a shock Vibrations that might provoke coil unbalance.	Light colour	5,10,22	0.849	175
Beslux Gear XP	Range of E. P. mineral oils intended for industrial gears, plain bearings, reducers, transmissions etc. Provided with excellent resistance to temperature. Meet the US steel 224, standard, the DIN 51517part 3, CLP class the ISO 6743 part 6, CKD class. Due to the highly refined base oils used in the formula, they are perfectly unactive to materials such as bronze.	Flender approved micro pitting control gear oil. Protects gear teeth against micro pitting and grey flecking. Superior EP protection & demulsibility. Heavily loaded gear drives in cement, steel, paper, plastic and other industries	Light amber	68,100,150,220, 320,460	0.911	250

HIGH PERFORMANCE GREASES

PRODUCT	APPLICATION AREAS	ADVANTAGES & BENEFITS	BASE	NLGI CLASS DIN 51818 CHAMBER	WORKED PENETRAT-ION@25 (°C)(0.1mm CHAMBER	DROP POINT	OPERATING TEMP. RANGE (°C)	APPEA RANCE
G.A.N 850 EP-000	Fluid grease based on Mineral oil-based lithium greases with E.P additives for lubrication of loaded mechanisms & bearing working at high temperature. Excellent water resistance.	High lubricating and anticorrosive power. Very fluid and pumpable. Water resistant and resists heavy loads.	Lithium	000	445-475	>165	-25 to 120	Brown
G.A.N.850 EP-00	Fluid grease based on Mineral oil-based lithium greases with E.P additives for lubrication of loaded mechanisms & bearing working at high temperature. Excellent water resistance.	High lubricating and anticorrosive power. Pumpable through centralized system. No blockage. Water resistant and resists heavy loads	Lithium	00	400-430	>170	-25 to 120	Brown
G.A.N 850 EP-0	Fluid grease based on Mineral oil-based lithium greases with E.P additives for lubrication of loaded mechanisms & bearing working at high temperature. Excellent water resistance.	High lubricating and anticorrosive power. Pumpable through centralized system. No blockage. Water resistant and resists heavy loads	Lithium	0	355-385	>170	-25 to 120	Brown



PRODUCT	APPLICATION AREAS	ADVANTAGES & BENEFITS	BASE	NLGI CLASS DIN 51818 CHAMBER	WORKED PENETRAT -ION@25 (°C)(0.1mm CHAMBER	DROP POINT	OPERATING TEMP. RANGE (°C)	APPEA RANCE
G.A.N.850 EP- 1	Grease for central lubrication system based on Mineral oil-based lithium greases with E.P additives for lubrication of loaded mechanisms & bearing working at high temperature. Excellent water resistance.	High lubricating and anticorrosive power. Pumpable through centralized system. No blockage. Water resistant and resists heavy loads	Lithium	1	310-340	>175	-20 to 120	Brown
G.A.N. 850 EP-2	Mineral oil-based lithium greases with E.P additives for lubrication of loaded mechanisms & bearing working at high temperature. Excellent water resistance	High lubricating and anticorrosive power. Suitable for bearings exposed to water and heavy loads	Lithium	2	265-295	>180	-25 to 120	Brown
G.A.N 850 EP-3	Mineral oil-based lithium greases with E.P additives for lubrication of loaded mechanisms & bearing working at high temperature. Excellent water resistance	High lubricating and anticorrosive power. Suitable for motor bearings	Lithium	3	220-250	>180	-20 to 120	Brown
G. A BESM OLY PLUS	Long life lithium greases with E.P antiwear antioxidant,antirust additives & solid lubricants (Molibdenumbisulphide) for lubrication of mechanisms & bearings exposed to very high loads & shock stress	Long life water resistant chemical stability. Ideal solution for ID fans bearings exposed to high loads in steel paper and cement industry	Lithium	2	265-295	>180	-30 to 140	Greyish Black

HIGH PERFORMANCE MAINTENANCE SPRAY PRODUCTS

PRODUCT	APPLICATION AREAS	ADVANTAGES AND BENEFITS
BESLUX AFLOJATODO (RELEASING SPRAY)	<ul style="list-style-type: none"> Unblock & release any screw, bolt, nut, pins, threaded joints etc Release) es seized mechanisms. Demount rusted pieces & corroded accessories. 	<ul style="list-style-type: none"> Penetrates quick and deeply the oxide, dirt Does not affect to metal, wood, plastics or rubber. Fine spraying that allows to focus the jet to the part to be released. Contains solid additives that reduce the stress to demounting the treated parts prior to settings.
BESLUX ENGRANAJES ABIERTOS (OPEN GEAR SPRAY)	<ul style="list-style-type: none"> Spray lubricant for gears, toothed and rotary, crowns, wires, and generally any drive lubricated with tacky lubricant provided with high resistance to mechanic loads 	<ul style="list-style-type: none"> Very adhesive fine film, Avoid abrasive wear, water resistant, high protection in wet and salt ambience . Very good high load protection resists high temperatures up to 150 deg C. Protects against wear and corrosion.
BESLUX CABLES (WIRE ROPE SPRAY)	<ul style="list-style-type: none"> The lubrication & protection of wires. Public works machinery, cranes in building works. Ports machinery (crane, on board cranes Industrial Crane. Bridge Crane Fixing & elevating wires lifts Wires in Mines Equipments 	<ul style="list-style-type: none"> Outstanding lubrication capacity, Outside protection and inside lubrication. Water resistant and high temperature resistant. Thin Film that avoids dust and dirt. Increases wire Life.



PRODUCT	APPLICATION AREAS	ADVANTAGES AND BENEFITS
BESLUX ANTI-HUMEDAD (ANTI RUST AND WATER REPELLENT SPRAY)	<ul style="list-style-type: none"> Protection against moisture of any kind of surfaces. Protection of moulds & machined parts during storage. Protection against fingers print corrosion. Protection corrosion of any kind of metallic parts 	<ul style="list-style-type: none"> Provided ultrafine film protecting against humidity, repeling water from the treated surface. Applied to wet surface will displace the water and remain between the metallic surface and present water. Does not catch dirt or dust and remain clean
BESLUX RK PELABLE (SKINING DRY FILM SPRAY)	<ul style="list-style-type: none"> Anticorrosive protector, special to all kind of mould in plastic & elastomers industries. In general, as a flexible varnish film used in the conversation of any type of metallic material, during its production, storing or transport. 	<ul style="list-style-type: none"> Builds a completely homogeneous adhesive, long life lubricating film which resists high pressure and strong temperature variations. Mostly application is spindles, guides, screws, sliders, axles and bolts.
BESLUX CAMI 150 WR (ADHERENT AND WATER REPELLENT CHAIN SPRAY)	<ul style="list-style-type: none"> Special oil packed in aerosol, intended for chain lubrication in contact with water or humid areas, for any industry segments. 	<ul style="list-style-type: none"> Very adherent and high pressure resistant. It act as water repelling agent building an anticorrosive and antiwear protection film. Neither splash nor drop.
BRADOL TOP CLEANER (OFFLINE AND ONLINE CONTACT CLEANER)	<ul style="list-style-type: none"> Clean and degreases all kind of electrics parts and contact during online and offline. 	<ul style="list-style-type: none"> Special mixture of different solvents with progressive evaporation without any residue.

BESAL

BESAL is a range of water emulsifiable cutting fluids which covers all market applications concerning machining processes and metal grinding by means of forming white emulsions, opalescent microemulsions and transparent solutions.

BESAL products included specific additives to meet every need in the production machining processes, grinding, milling, sawing etc.

BESAL fluids form stable mixtures with all kinds of drinkable water. Thus, long life expectancy emulsions are obtained which significantly reduce how frequently the baths need to be changed due to contamination. BESAL fluids perform optimally and minimize the amount of waste materials generated compared to conventional products.

Because of its high lubricant capacity, BESAL cutting fluids significantly extend the lifespan of cutting tools. Their high anticorrosive power effectively protects machined parts and machine tools.

HIGH TECHNOLOGY SOLUBLE CUTTING FLUIDS

MACHINING PRODUCTS

PRODUCTS	WATER	EMULSION	MATERIALS			APPLICATIONS
	HARDNESS HF	ASPECT	Steel	Aluminum	Brass	
BESAL 5	Up to 50	Milky				General machining. Good lubrication and anticorrosive protection.
BESAL G-2	All	Transparent Green				Synthetic fluid for grinding operations. Good anticorrosive power and detergent capacity.
BESAL 79 CS	Up to 50	Opalescent				Machining and grinding of high severity operations. Good detergent capacity without forming foam. Long service life and good anticorrosive power.

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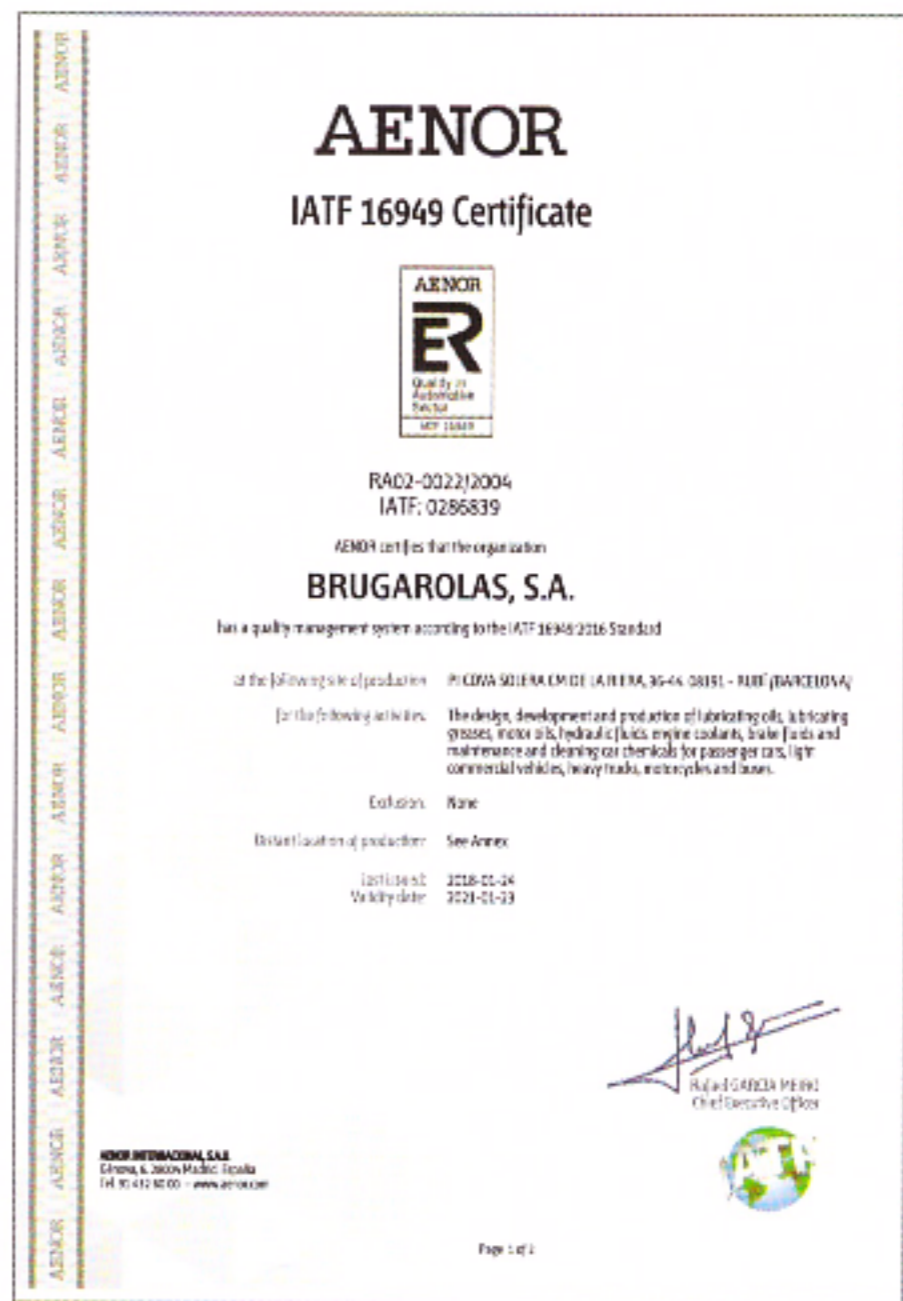
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Authorised Dealer

Brugarolas researches, develops, manufactures and supplies lubricants for various industrial activities tested by the highest quality control systems worldwide, meeting the following ISO standards : IQNET ISO 9001, ISO 9001 e ISO-TS16949.



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