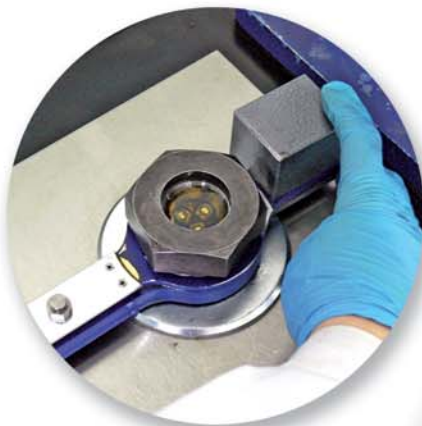


Precision Lubricants

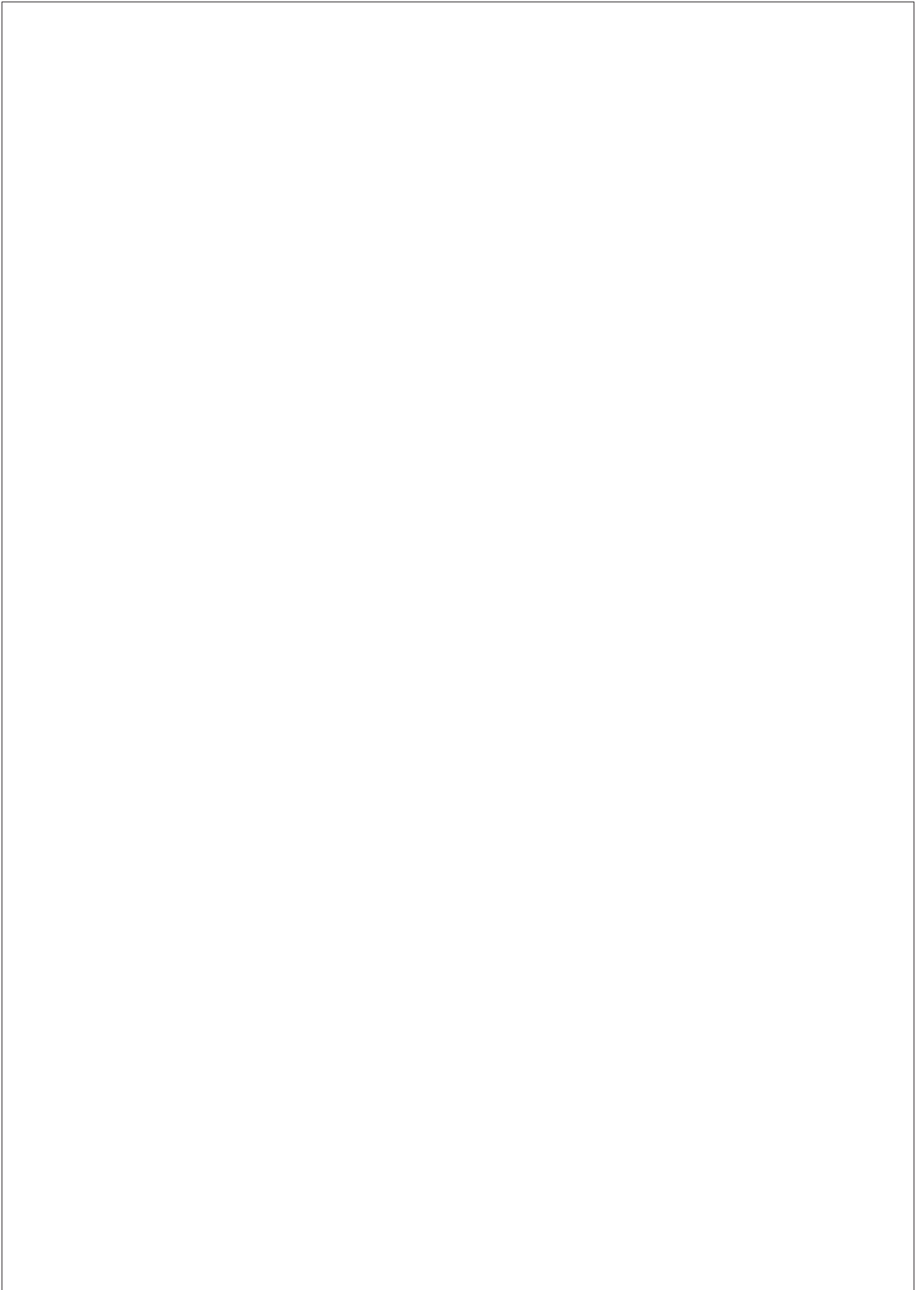


Hi-Tech Lubricants



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

+34 91 871 93 60





## Product's Guarantee

**1** All the products manufactured by **ELECTROFILM ESPAÑOLA, S.A.** are **GUARANTEED** against any manufacturing defect from ONE YEAR period, *since the purchase order to ELECTROFILM ESPAÑOLA, S.A.*

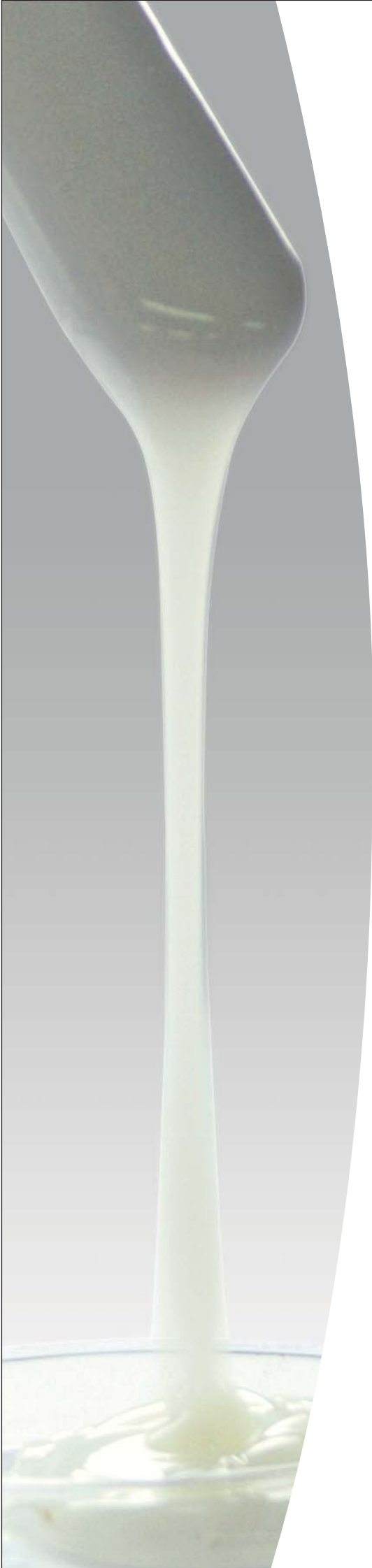
**2** **ELECTROFILM ESPAÑOLA, S.A.**, guarantees, within this period, the replacement, at its judgment, of the product, provided that the product is shipped with postage prepaid to our factory and the inspection by our Quality Department confirms that the defect's cause is covered by the **GUARANTEE**.

**3** The guarantee doesn't cover the defects caused by:  
Accident, misused, handling or incorrect product installation. Products must be used and kept according to technical documentation provided by the Factory. If you don't have this documentation, please ask for it.

**4** Products not manufactured by **ELECTROFILM ESPAÑOLA, S.A.**, like raw materials, lubrication devices and others ... are subject to the original manufacturer's guarantee.

**ELECTROFILM ESPAÑOLA S.A.** maintains a policy of continuous development and product innovation. The company reserves the right to modify the product's formulations without previous notification.





***elesa® is ELECTROFILM ESPAÑOLA, S.A's  
mark, a big company***

born in February 1965, thanks to its founder  
D. Teodoro Carvajal Gallego.

**ELECTROFILM ESPAÑOLA, S.A.** begins cooperated with  
**ELECTROFILM INC., USA** company, situated in West Lafayette  
(Indiana), importing its technology and lubricant products in all  
kind of formats.

Starting being an importing company and only dedicated to  
lubricant's marketing with so well-known marks such as Lubri-  
Bond and Everlube, manufactured according to American  
regulations MIL, **ELECTROFILM ESPAÑOLA, S.A.** reaches such  
a big dimension that motivate it to GROWN.

In 1985, **ELECTROFILM INC., USA's** management offered us its  
installation acquisition in West Lafayette. In those years, the  
Spanish government don't allow us to import the machinery from  
**USA. ELECTROFILM INC., USA** begins its talks with a big American  
chemical group, Great Lakes Chemical Corporation (GLCC).  
Nowadays we are completely independent.

Because our excellent relationship and professional cooperation,  
**ELECTROFILM INC., USA** decides, before belonging to GLCC  
in 1988 transfer to **ELECTROFILM ESPAÑOLA, S.A.** all of  
its technology, know-how and original formulations. That  
gives us the opportunity to grow as a company and undertake  
the great adventure, after a long import-export business career,  
to be specialized manufacturers in lubrication and industrial  
engineering sector.

That meant a new installation change, to the actual address. The American specialist technical group, were working with us until the factory and all the different production processes were settled up. **Nowadays we manufacture more than 1800 product references.**

Since our beginning, we are specialized in industry and specifically in lubricant and maintenance sector. Far from an artisan activity, production turned into an important technical process, examined by measurement and valuation systems.

The constant investigation carried out by our technicians, their dedication and their continued work in small-scale pilot plants, has allowed us a perfect and deep knowledge about the parameters that governing the reactions, mixtures, dispersions and emulsions, to offer in every moment an homogeneity in performance and properties of each of manufactured lubricants.

Nowadays all of our products are manufactured and supervised under a Quality System according to **UNE-EN-ISO** standards. Also, we design and manufacture tailor-made products for certain customers that have homologated our specific preparations.

All our products involved an add value that consists in an immediate personal attention, either in situ or through **our customer attention telephonic line 902 123 453**, implementation of lubrication studies, advice to avoid unnecessary stocking, lubricant analysis, investigation and tailor-made products design, applied engineering, CE mark, training, de activity licenses, etc.

Our working team is highly qualified in engineering, chemistry, mechanic, economy, quality assurance and environment, with the only purpose to satisfy all our customers' needs in their multiple sectors and meet the Global Market demands, so close and competitive.

We are always evolving towards a bigger products' performance, and that's why we are in contact with the leader additive suppliers that made the differences between similar products, researching, developing and demanding better results in their raw materials. **All of that in keeping with security, hygiene and environment demands**



## Range of Products

We manufacture more than 1800 Special and Precision Lubricants references of, as well as Processing Products and other Chemical Products (degreasers, soaps, additives, metalworking fluids...). All of them begin their name with **elesa**<sup>®</sup>, our trademark.

We cover all industrial activities: agricultural, food, automotive, cement plants, nuclear and electrical plants, pharmaceutical, metallurgical, mining, shipbuilding, chemical textile, plastic, glass, public works, etc.



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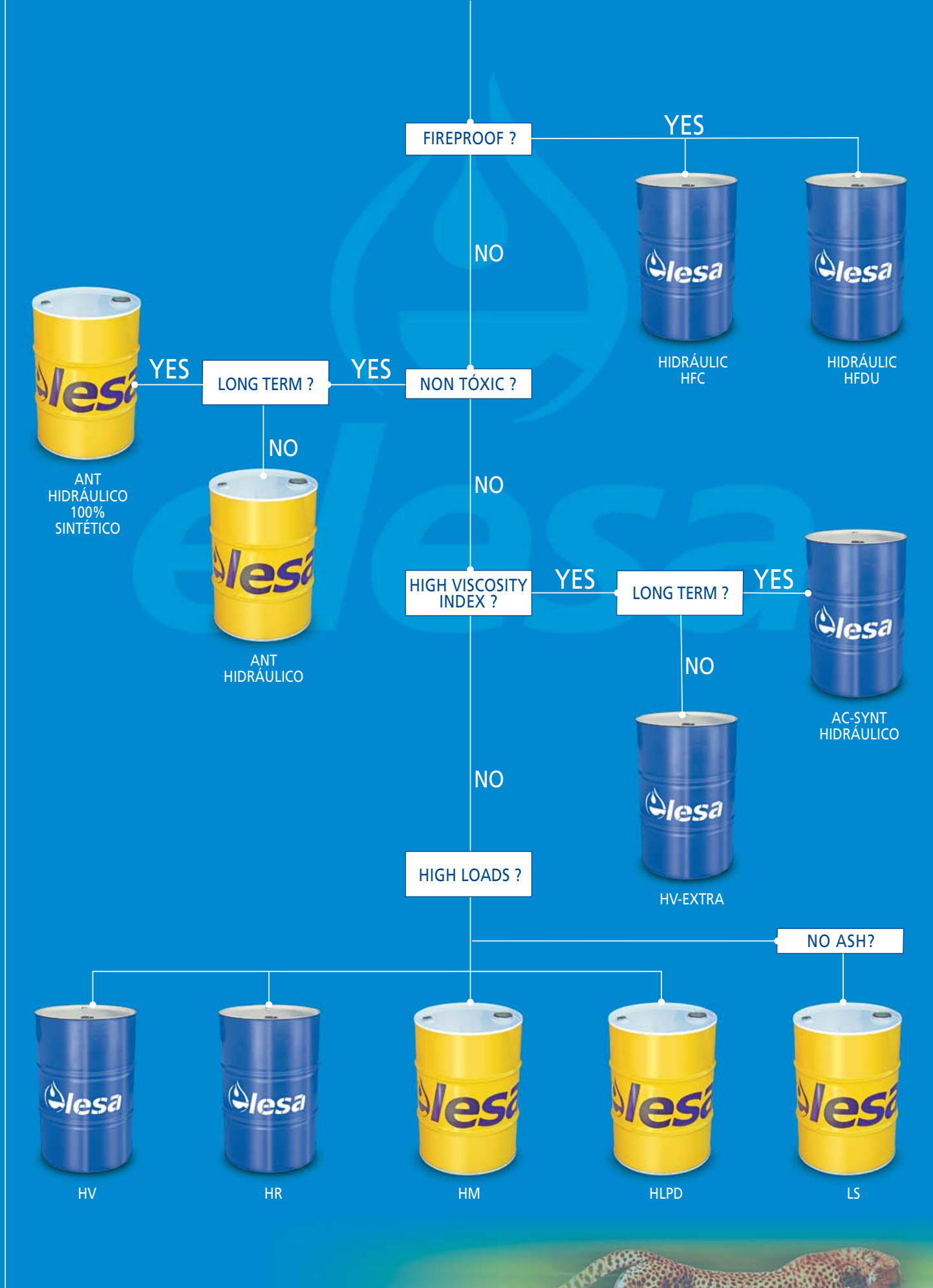
# aerosols products

elesa®'s Product	Working Temperature (°C)	General Features and applications
Dielectric Cleaner <b>PRESTIGE</b>	-	Dielectric degreaser with no residue. Recommended for degrease and machinery cleaning, switchboards, brakes, clutches and several pieces. Chlorinated products FREE. (520 c.c.)
Anti-Rust Protective Penetrating Oil <b>NR</b>	-50 to 50	Dielectric Lubricant moisture displacing in switchboards. Protects against corrosion, both in saline chamber and moist chamber, in corrosive, marine y salted environments .Finished parts and matrix protector. Engine cleaning. Spray - welding. Meets <b>NSF-H2</b> .(520 c.c. y 210 c.c.).
Antioxidant Penetrating Oil <b>SUPERSTAR</b>	-50 to 50	High penetrability oil. Anticorrosive moisture displacing, developed to protect ferrous metals, finished pieces, machinery, tools and electrical equipment, etc facilitates de dismantling work. Very good compatibility with paints and joints. Dielectric and waterproof. (520 c.c.).
Penetrating Oil and Lubricant <b>NR-ATOX</b>	5 to 50	Penetrating oil, moisture displacing, dielectric, and protective. Eliminates squeaks and facilitates glides. Meets <b>NSF-H1</b> (520 c.c.). For more corrosion protection, use elesa® <b>NR NSF-H2</b> (220 c.c. y 520 c.c.).
Non toxic White Grease <b>NT MULTITEC</b>	-10 to 150	Snow-white synthetic grease with PTFE, adhesive and resistant to water washout. No pick and no stain. Anti-rust protection. Compatible with seals and elastomers. Meets <b>NSF H1</b> (520 c.c.)
Extreme Temperature <b>ALBA</b>	-50 to 250	White and fluid synthetic grease with PTFE, designed for hot and cold extreme temperatures No pick, no stain, no smell. Especially for food industry, paper and textile. Meets <b>NSF-H1</b> (520 c.c.).
Multipurpose Lubricant <b>LUBRITEF</b>	-10 to 150	Multi-application Nontoxic Lubricant with PTFE, for clean industries. Meets <b>NSF-H1</b> (520 c.c.).
Non toxic Silicone <b>FSA</b>	-55 to 230	Non stick synthetic fluid, especially for chains and conveyor belts. Plastic film and paper cutting blades protector. Plastic and rubber mold release. Spray-welding. Meets <b>NSF H-1</b> (650 c.c.)
Multipurpose E.P. Oil High Penetration <b>28</b>	-30 to 150	<b>MOLY-LUBE</b> with antioxidant, antiwear and pour point depressor. Applicable on cables, chains and small dimension bearings, submitted to high loads. Especially for difficult access points. (520 c.c.).
Bearings, Cables and Chains <b>38 - S</b>	-15 to 150	Synthetic grease with no drop point, <b>HIGHLY</b> adhesive and resistant to hot water, acids and bases washout. With no asphalt neither plumb additives. High load capacity. Dust repels. (520 c.c.)
Teflon E.P. Grease <b>ARIS - TF</b>	-15 to 145	Cream colored multipurpose E.P. grease with PTFE. Application in rolling bearings ,bearings, joints, ball-and-socket joints, wires and chains, open gears, spline, spreaders, cardan joints, long and high load spindles. Meets <b>NSF-H2</b> . (520 c.c.)
Screw Assembly <b>ELECTRON AL-3</b>	-20 to 700	Aluminum antiseizing for mounting threaded connections, for example: foundation drilling pipes. Electric contacts protective, prevents rust and electric arc formation. (520 c.c.)
Machining Drawing <b>AE</b>	-	Machining, drawing and metalworking oil. Strong E.P. additives, to achieve a better parts finishing and less tools wear. (520 c.c.).
Dry film lubricant (U.S.A.) <b>LUBRI - BOND A</b>	-200 to 200	Dry film lubricant imported from U.S.A., to protect threaded connections. Contains Molybdenum Disulfide and Graphite in a binder resin. Meets <b>MIL-L-23398B</b> . (330 c.c.)





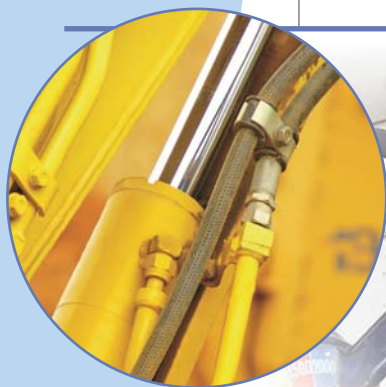
# Do you need one hydraulic Oil?



# hydraulic oils

## MINERAL

elesa® Product	Product's Description						
	Variant		Variant		Variant		
	ISO Viscosity (SAE) *40°C Viscosity				ISO Viscosity (SAE)		
<b>AEG</b> HYDRAULIC OIL AND GENERAL LUBRICATION	Ultra-refined based oils. Their features of high viscosity index, oxidation stability, corrosion and demulsibility, make them ideal for hydraulic circuits, rolling gear lubrication, general lubrication and total loss lubrication.						
	AEG-46 46 (20)			AEG-68 68 (20)			
<b>HIDRÁULICOS</b>	Hydraulic systems oil, general lubrication and total loss lubrication, with antioxidant additives. Meet: AFNOR NFE 48603-HL, DIN 51524 (HL).						
	HIDRÁULICO 46 46 (20)			HIDRÁULICO 68 68 (20)			
<b>HM</b> EP HYDRAULIC SYSTEMS	Hydraulic systems oil, with antioxidant, antirust, antiwear and antifoam high protection. Meet: AFNOR NFE 48603-HM, DIN 51524 2 and 3 parts (HLP), CINCINNATY MILACRON P-68, 69,70, DENISON HF-2, HF-1 and HF-0, VICKERS M-2952-S / M-2950-S / I-286-S.						
	HM-22 22 (10)	HM-32 32 (10)	HM-46 46 (20)	HM-68 68 (20)	HM-100 100 (30)	HM-150 150 (40)	HM-220 220 (50)
<b>HR</b> E.P. HYDRAULICS HIGH OUTPUT	Hydraulic oils with oxidation, corrosion and wear protection and with foam control, demulsibility, filterability and low pour point. Use it in hydraulic systems and hydrostatic system circuits .Meet: AFNOR NFE 48603-HM-HR; DIN 51524 2 Y 3 PARTS (HLP); CINCINNATI MILACRON P-68, 69, 70; DENISON HF-2, HF-1 and HF-0; , VICKERS M-2952-S / M-2950-S / I-286-S						
	HR-22 22 (10)	HR-32 32 (10)	HR-46 46 (20)	HR-68 68 (20)	HR-100 100 (30)	HR-150 150 (40)	
<b>HV &amp; HV EXTRA</b> HIGH OUTPUT HYDRAULIC IV=150	Hydraulic commands fluids and hydrostatic systems, with high chemical stability and very high viscosity index. Systems where low viscosity variation with high pressure and temperature is required. The UPPER range is called ELESa HV-EXTRA. Meet: AFNOR NFE 48603-HV, DIN 51524 2 and 3 parts (HVLP), CINCINNATY MILACRON P-68,69,70, DENISON HF-2 and HF-0, VICKERS M-2952-S.						
	HV-32 EXTRA 32 (10)		HV-46 EXTRA 46 (20)		HV-68 EXTRA 68 (20)		HV-100 EXTRA 100 (30)
<b>LS</b> COMPRESSOR AND ASHLESS HYDRAULIC	Systems that require low carbonaceous deposit content, with good antiwear protection. Meet: Compressor DIN-51506-VDL and hydraulic and DIN-51524 part 2 and AFNOR NFE 48603 (HM)						
	LS-32 32 (10)	LS-46 46 (20)	LS-68 68 (20)	LS-100 100 (30)	LS-150 150 (40)	LS-220 220 (50)	LS-320 320 (--)
<b>HLPD</b> HYDRAULIC DETERGENT	Ultra-refined based Hydraulic Oil, developed for use them in hydraulic systems and circuits with hydrostatic systems. Specially designed for systems where can be contamination risk with water, coolants, cooling fluids and pollutants or deposits. It has a high detergent and dispersant capacity and that makes it does not separate from the water, but includes it. Specially recommended for tools machines. Meet the general requirements of: DIN 51524 Part. 2 (HLP type), DIN 51517 Part. 3 (CLP), MAN N-698-HLPD						
	HLPD 32 68 (20)			HLPD 68 68 (20)		HLPD 220 220 (50)	
<b>ANT-HIDRÁULICO</b> NON TOXIC HYDRAULIC	Hydraulic Oils with medicinal grade paraffinic base, formulated for food industry applications and hydraulic circuits. They contain antioxidant, antirust, antiwear and antifoam additives. Meet FDA-21 CFR. 178.3570 y NSF-H1(H1) with Register No. 136822.						
	ANT - 46 HIDRÁULICO 46 (20)		ANT - 68 HIDRÁULICO 68 (20)			ANT - 100 HIDRÁULICO 100 (30)	



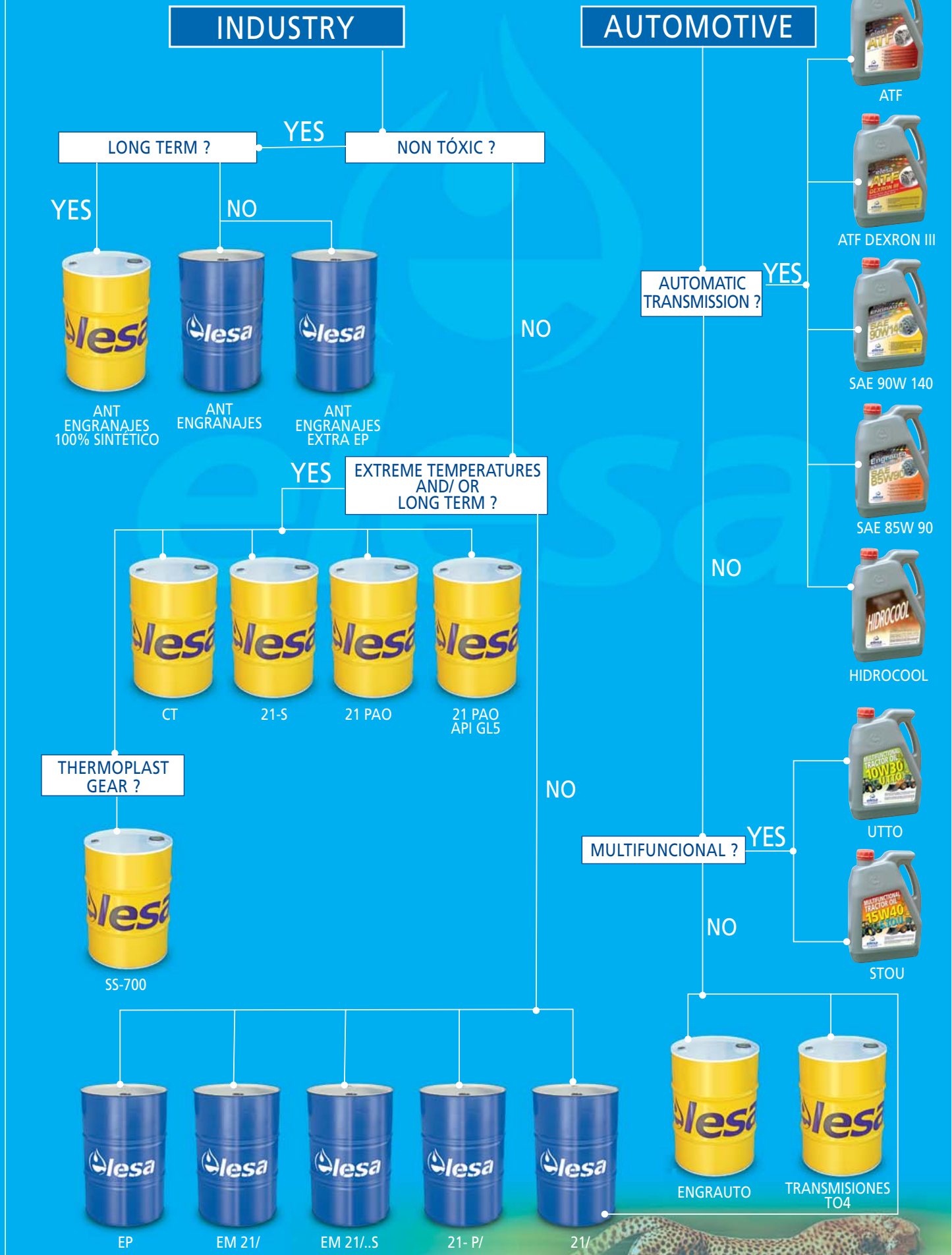
# hydraulic oils



## SYNTHÉTIC

elesa® Product	Product's Description											
	Variant		Variant		Variant		Variant					
	ISO Viscosity (I.V.) *40°C Viscosity				(Pour Point...Flash Point)							
<b>AC-SYNT</b> HYDRAULIC	Hydraulic Oils without ash, 100% Synthetic with polyalphaolefin (PAOs) base and last generation additives. Long service life, optimum antiwear protection, high oxidation and corrosion protection, high flash point, low volatility and very low pour point. Specially developed for alternative and rotary compressors, vacuum pumps and blowers, oven chains lubrication, gears and extreme temperatures mechanisms. Meet: COMPRESSOR: DIN-51506-VCL Y VDL HYDRAULIC: DIN-51524, PART 2, AFNOR-NFE 48603 (HV)											
	<b>AC-SYNT 46 HIDRÁULICO</b>	<b>AC-SYNT 68 HIDRÁULICO</b>	<b>AC-SYNT 100 HIDRÁULICO</b>	<b>AC-SYNT 150 HIDRÁULICO</b>								
	46 (130)	[<-45..245]	68 (130)	[<-45..245]	100 (136)	[<-40..245]	150 (130)	[<-40..255]				
<b>HIDRAULIC HFDU-46</b> FLAME RETARDANT HYDRAULIC	Flame retardant hydraulic oil. High corrosion resistance and chemical stability. Nontoxic and biodegradable. Applicable in high-pressure devices in steel, plastic or aluminum extrusion industries. HFDU type. Maintenance-free.											
	<b>HIDRÁULIC HFDU-46</b>											
	46 (187)				[-15..310]							
<b>HIDRAULIC HFC</b> FLAME RETARDANT HYDRAULIC	Flame retardant hydraulic oil. High corrosion resistance and chemical stability. Nontoxic and biodegradable. Applicable in high-pressure devices in steel, plastic or aluminum extrusion industries.											
	<b>HIDRÁULIC HFC</b>											
	46 (187)				[-47..Not applicable]							
<b>ANT-HIDRÁULICO SINTÉTICO</b> NON-TOXIC HYDRAULIC	Oils for Hydraulic Systems, 100% Synthetics. Ideal for Food Industry. They protect against corrosion, rust and wear, and have an excellent relationship Viscosity-Temperature. Formulated to transmit power, to lubricate and to protect hydraulic systems. Meet: FDA 21CFR 178.35 70 y NSF- H1(H1).											
	<b>ANT-32 HIDRA.</b>	<b>ANT-46 HIDRA.</b>	<b>ANT-68 HIDRA.</b>	<b>ANT-100 HIDRA.</b>	<b>ANT-150 HIDRA.</b>	<b>ANT-220 HIDRA.</b>						
	32 (135)	[<-60..225]	46 (130)	[<-55..245]	68 (130)	[<-45..250]	100 (130)	[<-30..250]	150 (130)	[<-30..260]	220 (130)	[<-30..260]

# Do you need a Gear Oil?



# gear oils

## MINERAL

elesa® Product	Product's Description				
	Variant		Variant		Variant
	ISO Viscosity (SAE)			ISO Viscosity (SAE)	
<b>AEG</b>	Lubrication of gears, rolling bearing and hydraulic circuits, steam turbines and vertical water turbines, air compressors where de discharge temperature is moderate, enclosed, straight, helical, conical and endless gears.				
	AEG 100 100 (80)	AEG 150 150 (85)	AEG 220 220 (90)	AEG 320 320 (--)	AEG 460 460 (140)
<b>ENGRANAJES MINERAL</b>	Ultra-refined based oils, with a studied additives compensation that perfectly covers the needs of the general use gear's systems in industry, like steam turbines, chains, smooth bearings ,etc				
	ENGRANAJES 220 220 (90)			ENGRANAJES 320 320 (--)	
<b>EP REDUCTORS</b>	Industrial Gear Oils, with capacity to bear high shock loads (cylindrical, conical and helical gears). Capacity to provide low friction coefficient. Meet: U.S. Steel 224 and AGMA 250.04. and CINCINNATI MILACRON P-47 and P-50 depending on viscosity. ELESA EP-100, 150, 220, 320, 460/S: With adhesiveness additive(S).				
	EP-100 /100S 100 (80)	EP-150 /150S 150 (85)	EP-220 /220S 220 (90)	EP-320 /320S 320 (--)	EP-460 /460S 460 (140)
<b>EM 21/.. ENGRANAJES Y COJINETES INDUSTRIALES CARGADOS</b>	Industrial Gears E.P. Oil. Antioxidant, Antirust, Anticorrosion, Antifoam, Antiwear and Extreme Pressure properties. Cylindrical, conical, helical and worm gears lubrication. They are especially appropriate with low velocities and water contact. Meet: U.S. Steel 224; NSF H2, AGMA 9005.E02; DIN 51.517 part. 3 (CLP-46 a 680); David Brown S1.53.101; Viscosity according to ISO 3448 and DIN 51519; Classification ISO L-CKC (46 to 680). elesa® EM 21/80-85-90-115-140-250/S: With adhesiveness additive (S). It has anti-stick-slip effect.				
	EM 21/80 100 (80)	EM 21/85 150 (85)	EM 21/90 220 (90)	EM 21/115 320 (--)	EM 21/140 460 (140)
<b>21/.. GEARS</b>	HIGH RANGE Multifunctional gears Oils and Long-Life. Protects against oxidation, hydrolysis, wear and corrosion. elesa® 21 with Molybdenum Disulfide (MoS2) and elesa® 21/-SB without MoS2.				
	21/ 80 & 21/80 -SB 100 (80)		21/ 85 & 21/85 -SB 150 (85)		21/ 90 & 21/90 -SB 220 (90)
<b>21P GEARS HIGH ADHESIVENESS</b>	Lubricant for gears that support HIGH LOADS.VERY HIGH adhesiveness and shear resistance, high pressure and low velocity works. elesa® 21 P-900: Excellent performance in the skins of crane feathers. elesa® 21 P-4000: LUBRICATES with acids and water. Meet quality standards DIN 51517 Part 3 and API GL4.				
	21P 460 460 (140)		21P 900 900		21P 4000 4000
<b>ENGRAUTO GEARBOXES</b>	Gear automotive Oil API GL-5 y MAN 342N. Gearboxes and latest generation differentials lubrication. Suitable for devices with helical, cylindrical, conical, worm and hypoid gears.				
	SAE 85W90 220 (90)			90W140 460 (140)	



# gear oils

<b>ANT GEARS</b>	Industrial Gear Oil for machinery that works with food and can be incidental food contact. It has a high Extreme Pressure capacity. NSF approved for food industry. FDA-21 CFR. 178.3570 and NSF-H1, Register No. 136819.			
	ANT-150 150	ANT-220 220	ANT-320 320	ANT-460 460
<b>ANT ENGRANAJES EXTRA EP</b>	Industrial Gear Oil for machinery that works with food and can be incidental food contact. It has a high Extreme Pressure capacity.			
	ANT ENGRANAJES EXTRA EP-150 150	ANT ENGRANAJES EXTRA EP-220 220	ANT ENGRANAJES EXTRA EP-320 320	ANT ENGRANAJES EXTRA EP-460 460

## SYNTHETIC

elesa® Product	Product's Description						
	Variant		Variant		Variant		
	ISO Viscosity (I.V.) *40°C Viscosity			(Pour Point...Flash Point)			
<b>21PAO GEAR OILS</b>	New generation Oils, 100 % synthetic (Polyalphaolefin), with excellent lubrication in extreme temperature, low velocity and high load conditions. For hypoid gears apply elesa® 21 S. Meet: U.S. Steel 224, DIN 51.517 part. 3, AGMA 9005.E02, David Brown S1.53.101.						
	21 PAO 68 68 (137) [-42..245]		21 PAO 80W90 128* (141) [-39..266]		21 PAO 80W140 400* (138) [-36..266]		
<b>CT-530 CT-570 CT-590</b>	Long-lasting synthetic oil, ideal for High Temperature in chains and gears. Exceptional thermal stability, high lubricity and Viscosity Index and very high load capacity. Compatible with elastomers. 3 to 4 times higher service than mineral oils.						
	CT-530 58* (192) [-35..250]		CT-570 105* (188) [-35..278]		CT-590 170*(196) [-34..280]		
<b>CT-600</b>	Synthetic lubricant Oil with high load capacity. It has high thermal stability and high Lubricant power. Specially designed for all kind of mechanisms that work at high temperatures, speed reducers, Crown-worm gear with bronze worm-gear, vane vacuum-pump, calenders, oven chains, helical transmissions and worm gears. Non miscible with mineral oils.						
	CT-600 320* (199)			[-30..250]			
<b>21S SPEED REDUCERS AND ROLLING BEARING AT HIGH AND LOW TEMPERATURES</b>	Synthetic gear Oils. Minimum evaporation, without carbonaceous residues and excellent E.P features. Very good behavior at corrosive environments and high temperatures. Ideal for speed reducers subjected to overloading, dry drum rolling bearings, oven chains, centralized systems... The version elesa® 21S/SB is biodegradable. The EXTRA range supports up to 240°C. The version elesa® 21S/-SB and - SB EXTRA don't contain MoS2.						
	21S80W85 / 80W85 -SB 137* (137) [-32..316]		21S 80W90 / 80W90 SB 214* (132) [-32..302]		21S 85W115 / 80W115 SB 300* (>115) [-32..302]		21S 85W140 / 80W140 SB 443* (125) [-32..302]
<b>SS-700 GEAR OIL HIGH TEMPERATURES</b>	Industrial gear E.P Oils. Corrosion and Wear protection and high electrolytic and oxidative stability. Use: Worm gear, cylindrical submitted to high temperatures. Meet: NSF- H1.						
	SS-700 (Fluid)			[-20..275]			
<b>ANT- ENGRANAJES 100% SINTÉTICO</b>	Industrial gear E.P Oils. Corrosion and Wear protection and high electrolytic and oxidative stability. Use: Worm gear, cylindrical submitted to high temperatures. Meet: NSF- H1.						
	ANT-150 ENGRANAJES 100% SINTETICO 150 (130) [-46..250]		ANT-220 ENGRANAJES 100% SINTETICO 220 (130) [-40..250]		ANT-320 ENGRANAJES 100% SINTETICO 320 (130) [-30..200]		ANT-460 ENGRANAJES 100% SINTETICO 460 (130) [-20..200]



# compressor / tire systems oils

## MINERAL

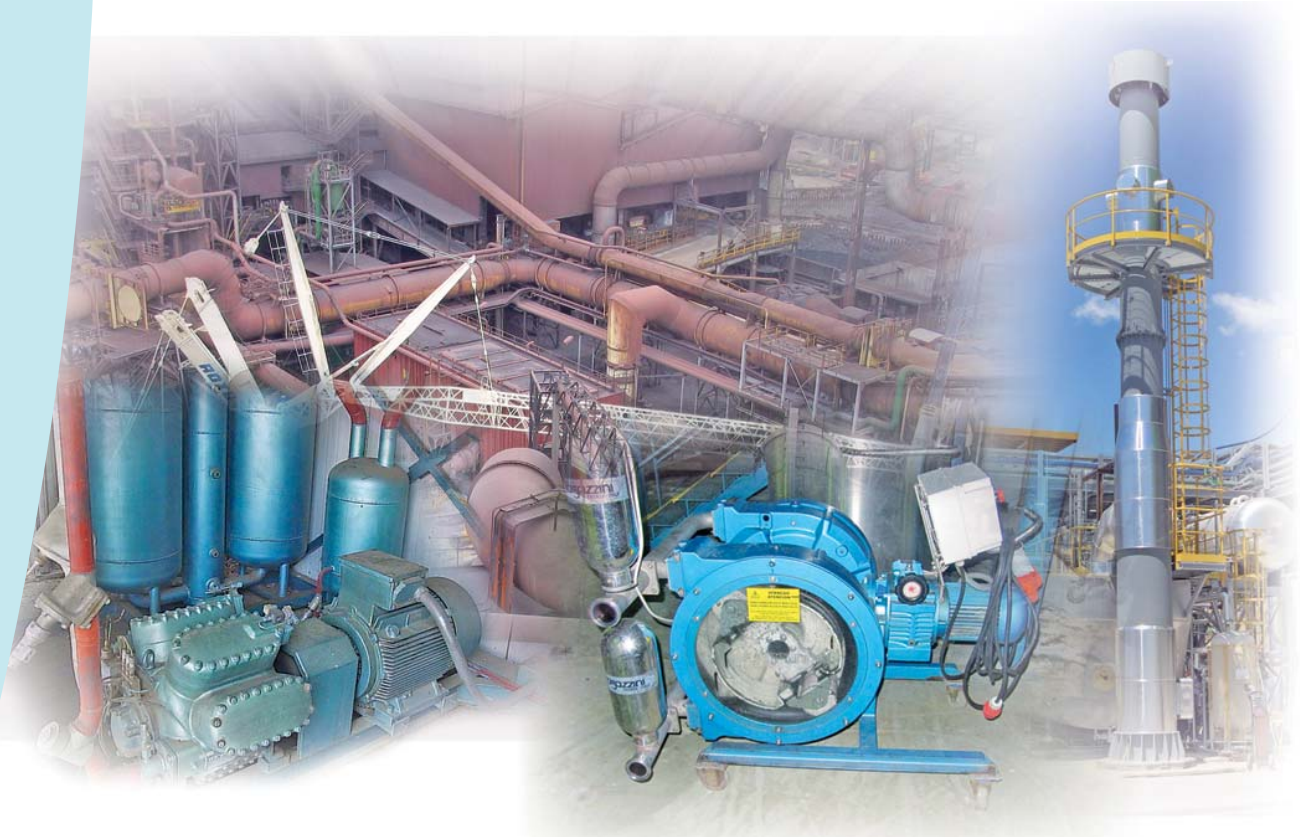
elesa® Product	Product's Description						
	Variant		Variant		Variant		
	ISO Viscosity (I.V.) *40°C Viscosity				Viscosidad ISO (SAE)		
<b>LS</b> COMPRESSOR AND NO ASH HYDRAULICS	Additivated to maximize the work of rotative and alternative compressors, vacuum-pumps according to its viscosity. Meet standards: Compressor's DIN-51506-VDL and Hydraulic's DIN-51524 part 2 and AFNOR NFE 48603 (HM).						
	LS-32	LS-46	LS-68	LS-100	LS-150	LS-220	LS-320
	32 (10)	46 (20)	68 (20)	100 (30)	150 (40)	220 (50)	320 (-)
<b>SN</b> PNEUMATIC TOOLS	Pneumatic system's lubricant, with excellent E.P., antioxidant, antiwear and anti-rust features. Meets standards: DENVER GARDNER; INGERSOLL RAND (ROCKDRILL-433); JOY (RD01); SIDERURGIE FRANCAISE-FT.174; CHICAGO PNEUMATIC (ROCKDRILL-1061); API GL-4.						
	SN-6			SN-16			
	68 (20)			220 (90)			
<b>POLAR</b> REFRIGERATION COMPRESSORS	Refrigeration Compressor's Lubrication. Very low pour point, low flocculation point, chemical stability, with oxidation resistance and high dielectric strength. Ammonia (R-717), Butane (R-600), Propane (R-290), Carbonic Anhydride (R-744) and chlorinated gases like R12 y R22. Meets standard: DIN 51503 KA and KC.						
	POLAR 46			POLAR 68			
	46 (20)			68 (20)			
<b>ANT</b> COMPRESORES NON TOXIC OILS	Paraffinic based Oils, with medical degree, NSF approved for Food Industry. elesa® ANT-46 and 68 COMPRESORES are applied in screw rotary and alternative compressors, depending on its viscosity. Meet standards FDA-21 CFR. 178.3570 and NSF-H1(H1) with register No. 136826.						
	ANT-46 COMPRESORES		ANT-68 COMPRESORES		ANT-100 COMPRESORES		
	46 (20)		68 (20)		100 (30)		
<b>ANT</b> PNEUMATIC NON-TOXIC OILS	Pneumatic system's lubrication in Food. Pneumatic cylinders, turbines and valves activation, etc. With good antioxidant, anti-rust and antiwear properties. Meet standards FDA-21 CFR. 178.3570 and NSF-H1(H1).						
	ANT-32 NEUMÁTICO		ANT-46 NEUMÁTICO		ANT-68 NEUMÁTICO		
	32 (10)		46 (20)		68 (20)		



# compressor / tire systems oils

## SYNTHETIC

elesa® Product	Product's Description									
	Variant			Variant			Variant			
	ISO Viscosity (I.V.) *40°C Viscosity					(Pour Point...Flash Point)				
<b>AC-SYNT</b> COMPRESSORS	Compressor's Oil 100% Synthetic with Polialphaolefine (PAO's) base. Long life in rotary and alternative compressors, vacuum pumps and lubrication of oven chains, gear and mechanisms at extreme temperatures. Last generation additives. Optimal antiwear, oxidation and corrosion protection, high flash point and low volatility. Meet standards: DIN-51506 VCL y VDL.									
	AC-SYNT - 46		AC-SYNT - 68		AC-SYNT - 100		AC-SYNT - 150		AC-SYNT - 220	
	46 (130)	[<-45..245]	68 (130)	[<-45..245]	100 (136)	[<-40..245]	150 (130)	[<-40..255]	220 (- -)	[255]
<b>POLAR-SYNT</b> REFRIGERATION COMPRESSORS	100 % Synthetic Oil designed for refrigeration compressors and heat pumps. Excellent resistance to thermal oxidation and very low evaporation. Compatible mainly with ammonia (R717) and CO2. Unsuitable to work with sulfur dioxide (SO2).									
	POLAR-SYNT 3			POLAR-SYNT 4			POLAR-SYNT 5			
	32 (135)	[-60..>215]		46 (135)	[-55..>220]		68 (140)	[-45..>250]		
<b>ANT-SINT</b> <b>COMPRESORES</b> <b>ATÓXICO</b> NON TOXIC COMPRESSORS	Compressor's Oil 100% synthetic, ideal for Food Industry. Protects against corrosion, wear and rust. Lubrication of rotary compressors (ISO-46 y 68) and alternative compressors, blowers and vacuum pumps (ISO-100 y higher). Meet standards: FDA 21CFR 178.35 70 and NSF- H1(H1).									
	ANT-46 COMPR.		ANT-68 COMPR.		ANT-100 COMPR.		ANT-150 COMPR.		ANT-220 COMPR.	
	46 (130)	[<-55..245]	68 (130)	[<-45..250]	100 (130)	[<-30..250]	150 (130)	[<-30..260]	220 (130)	[<-30..260]
<b>X-PFC V 100</b> VACUUM PUMPS	100% Synthetic Inert Lubricant perfluoropolyether type, with high thermal stability. For systems exposed to aggressive gases, even pure oxygen, chemistry and radiations, fireproof, high dielectric properties and good environmental features.									
	X PFC V 100									
	345 (135)					[-26..260]				





## MINERAL

elesa® Product	Product's Description		
	Variant	Variant	Variant
	ISO Viscosity (SAE) *40°C Viscosity		ISO Viscosity (SAE)
<b>MOTOR MONOGRADO</b>	Monograde Oil for Diesel and Gasoline engines. Low ash content, antiwear and antioxidant properties, and very high resistance to shearing. Lubrication of atmospheric and turbocharged diesel motors with high velocity and long-distance. API CF.		
	30		40
<b>MOTOR J 300</b>	Monograde Oil for Diesel and Gasoline engines. Low ash content, antiwear and antioxidant properties, and very high resistance to shearing. Lubrication of atmospheric and turbocharged diesel motors with high velocity and long-distance. API CF.		
	15W40	20W50	30
<b>MOTOR SHPD</b>	Multigrade Oil for Diesel and Gasoline engines. Low ash content, antiwear and antioxidant properties, and very high resistance to shearing. Lubrication of atmospheric and turbocharged diesel motors with high velocity and long-distance. <b>15W40 SHPD</b> : API CH4/SJ; ACEA E5/E3; MB 228.3; VOLVO VDS-2; MAN M 2375; MTU Type 2; MACK EO-M; ZF TE-ML 04C; CUMMINS 20071/20072; RENAULT RD/RD-2. <b>20W50</b> : API CF4/CF/SJ; ACEA A3/B3/B4/E2; MB 228.1; VOLVO VDS; MAN M271.		
	15W40	20W40	20W50
<b>MOTOR E7</b>	Last generation Motor Oils. Four-stroke diesel motors with normal aspiration or turbocharged. Euro-4, Euro-3, and Euro-2 engines. Meet standards: API CI-4/CH-4/CG4/CF-4/CF/SL; ACEA E7-04/E5-02/E3-96#4/A3-02/B3-98#2/B4-02; GLOBAL DHD-1; MB 228.3 VW 501/5; MAN M3275; VOLVO VDS-2, VDS-3; MACK EO-M, EO-M plus; CUMMINS 20071/76/78; 20072/77; MTU Type2; ALLISON C4.		
	15W30 E7		15W40 E7
<b>MOTOR 10W40 SHPD</b>	Last generation semi-synthetic Oil for four-stroke diesel engines with normal aspiration or turbocharged of a varied fleet. Antiwear and antioxidant properties, high viscosity index and good fluidity. Appropriate for Euro-4, Euro-3, and Euro-2 engines. Compatible with engines WITHOUT diesel particles filter and with engines equipped with EGR valve and selective catalytic reduction systems (SCR NOx). Meet standards: API CI-4/CH-4/CG4/CF-4/CF/SL; ACEA E7-04/E5-02/E3-96#4/A3-02/B3-98#2/B4-02; GLOBAL DHD-1; MB 228.3; VW 501/5; MAN M3275; VOLVO VDS-2, VDS-3; MACK EO-M, EO-M plus; CUMMINS 20071/76/78; 20072/77; MTU Type2; ALLISON C4.		
	10W30 SHPD		10W40 SHPD

\* 40°C Viscosity  
\*\* 100°C Viscosity

The motor Oil market is in constant evolution, check availability for other viscosities and standards



# motor oils

## SYNTHETIC

elesa® Product	Product's Description		
	Variant	Variant	Variant
	ISO Viscosity (I.V.) *40°C Viscosity		(Pour Point...Flash Point)
<b>MOTOR 5W30 SINT</b>	100% Synthetic "Fuel Economy". Low volatility and pour Point, high Viscosity Index, thermal stability and oxidation and corrosion resistance. High-end cars and direct fuel-injected diesel. Meet standards: API SJ/CF/EC; ACEA A1/B1; Ford WSS M2C 913-B; Ford WSS M2C 913-A; Ford WSS M2C 912-A1.		
	<b>MOTOR 5W30</b>		
	45* (191)		[-33..>200]
<b>MOTOR 5W40 100% SINT</b>	Lubricant Oil Synthetic 100% with "exceptional" quality. Recommended in high-end cars, gasoline and diesel, sedan and sports cars with direct fuel-injection diesel and gasoline. Meet standards: API SL/CF, BMW Long Life-98; MB-Approval 229.3; VW 502.00/505.00; ACEA A3/B4-07, Porsche GM-LL-B-025.		
	<b>MOTOR SAE 5W40</b>		
	86,97* (173)		[-33..>210]
<b>MOTOR VHPD HEAVY DIESEL</b>	Last generation Synthetic motor Oil, recommended for four-stroke diesel motors, with normal aspiration or turbocharged trucks, buses and public works machinery with heavy service and long periods of change. Euro-4, Euro-2, Euro-3 engines. Meet standards: ACEA E7/E5/E4; MB 228.5; MAN M3277; VOLVO VDS-3; SCANIA LDF; DAF HP 1/2; CUMMINS 20077/20076/20072/20071; MTU Type 3; RENAULT VI RXD.		
	<b>MOTOR 5W30 VHPD</b>		
<b>MOTOR 10W40 UHPD 100% SINT</b>	Recommended in diesel engines with overfeeding and heavy vehicles with high loads and long periods between drains and low emissions. Meet standards: API CI-4; ACEA E7-08; MB 228.3; MAN 3275; VOLVO VDS-3; RENAULT VI RLD-2; MTU Type 2; MACK EO-M PLUS; CAT ECF-1-a.		
	<b>MOTOR 10W40 UHPD 100% SINTÉTICO</b>		
	-- (151)		[-36..>220]
<b>MOTOR 10W40 LOW SAPS 100% SINT</b>	Very high yield, recommended in heavy diesel engines with very low ash, phosphorous and sulfur content en (Low SAPS). Suitable for diesel engines WITH particles filter (DPF), continuous regeneration trap (CRT) and selective catalytic reduction systems (SCR). Meet standards: ACEA E6-08 / E4-08 / E7-08; DAF HP-2; MAN 3277 CRT; MAN M 3477; SCANIA LA; MB-Approval 228.51/228.5; JASO DH2-05; MTU Type 3.1; VOLVO VDS-3; Renault RLD-2/RXD.		
	<b>MOTOR 10W40 LOW SAPS 100% SINTÉTICO</b>		
	85,1* (153)		[-33..>228]
<b>MOTO 2T SINT</b>	Synthetic Oil for Two-stroke "scooters", 2T, with independent lubrication (self-mix). High lubricating and detergency power, "smokeless" technology and low ash content Standards: JASO FC; API TC; ISO-L-EGC.		
	<b>MOTO 2T SINT</b>		
	8,9**		[-18..>70]

\* 40°C Viscosity

\*\* 100°C Viscosity

The motor Oil market is in constant evolution, check availability for other viscosities and standars



# transmissions / gearbox oils

## MINERAL

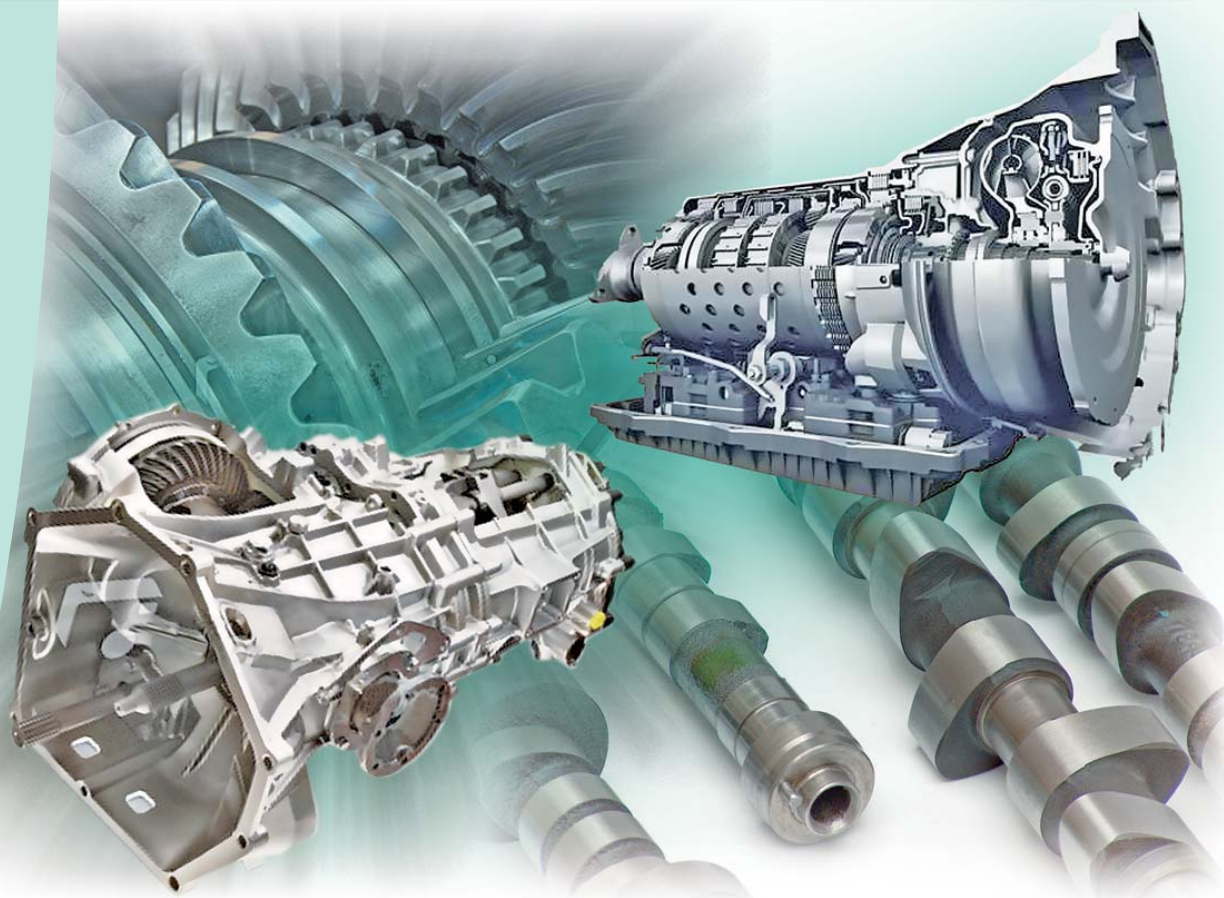
elesa® Product	Product's Description					
	Variant		Variant		Variant	
	ISO Viscosity (SAE) *40°C Viscosity			ISO Viscosity (SAE)		
<b>ATF DEXRON II</b>	Fluid for automatic and power shift transmissions. Meet specification DEXRON® II D.					
	<b>DEXRON II</b>					
	<b>46 (20)</b>					
<b>ATF Automatic Transmissions</b>	Lubricant especial for torque converters, turbo-clutches and automatic transmissions used as a servomechanism with high load capacity. Standards: GM DEXRON® II D; MERCEDES BENZ 236.7; VOITH; ALLISON C4; CATERPILLAR TO-2; MAN 339-C; ZF TE-ML-09, 11, 14.					
	<b>ATF</b>					
	<b>46 (10W)</b>					
<b>ENGRAUTO</b>	Automotive Gear Oils API GL-5 and MAN 342N. Gearbox lubrication and last generation differentials. Suitable for cylindrical, conical, helical, hypoid and worm gears...					
	<b>ENGRAUTO SAE 75W80</b>	<b>ENGRAUTO SAE 80W80</b>	<b>ENGRAUTO SAE 80W90</b>	<b>ENGRAUTO SAE 85W90</b>	<b>ENGRAUTO SAE 85W140</b>	<b>ENGRAUTO SAE 90W140</b>
<b>TRACTOR UTTO</b>	Multifunctional Lubricating Oil for hydraulic systems, transmissions and wet brakes. Ford M2C 134 A/B/C/D; John Deere JDM 20C/D; Case New Holland MAT 3525/3526; API GL-4; ALLISON C4; Massey Ferguson CMS 1145 y M1141(permatran III) M1143, M1135; Denison UTTO HF-0 a HF-02; Eaton Vickers (Mobile Hydraulic systems-Brochure 694); Ford M2C86-B Massey Ferguson M1110/1127A & B/1129A; Caterpillar TO-2; Case MS 1204/1206/1207/1209; Kubota UDT; JCMAS HK P-041 & P-042; John Deere J20A/B; AGCO-Allis-Chalmers PowerFluid PF-821 XL; Ford ESN M2C 41B/48B/53A; White Q-1826; Volvo WB101; ZF TE ML 03E and 05E.					
	<b>UTTO 10W30</b>					
	<b>62* (10W30)</b>					
<b>TRACTOR STOU</b>	Multifunctional Oil. ONLY ONE oil for the entire machine. Meet the specifications of the different systems that have to be lubricate: Multigrade Engine: API CF/CE/SF; CCMC D4; Mercedes Benz 227.1. Transmissions (manual and automatic): ZF TE ML 06 parts B&C; ALLISON C4; API GL-4 Wet Brakes and hydraulic systems: <b>STOU</b> (MASSEY FERGUSON M1139 / M1144, JOHN DEERE J27, FORD M2C159 B, FNH Material Specifications-82009201/2/3) and <b>UTTO</b> (MASSEY FERGUSON M1143 & M1135, JOHN DEERE J20C/D, FORD M2C134-D).					
	<b>STOU 10W30</b>			<b>STOU 15W40</b>		
	<b>65* (10W30)</b>			<b>114* (15W40)</b>		
<b>TRANSMISIONES TO-4</b>	New technology oil for machinery and mechanisms with high friction static coefficient, especially power shift transmissions, differentials, torque convertors, wet brakes, gearboxes, clutches... Meet standards: Caterpillar TO-4; Komatsu KES07.868.1; Allison C4 (off road); Caterpillar TO-2 (obsolete), API CF2, Euclid, Vickers M-2950-S, Eaton-Fuller*, Dana* o Tremac/TTC* (* Where it is asked for TO-4).					
	<b>SAE 10W</b>		<b>SAE 30</b>		<b>SAE 50</b>	
	<b>36* (10W)</b>		<b>100 (30)</b>		<b>175* (50)</b>	



# transmissions / gearbox oils

## SYNTHETIC

elesa® Product	Product's Description					
	Variant		Variant		Variant	
	ISO Viscosity (I.V.) *40°C Viscosity			(Pour Point...Flash Point)		
<b>ATF DEXRON III H</b> Transmissions and Power shift transmissions	Automatic and power shift transmissions. Fluid type DEXRON III. Excellent for modern automatic gearboxes. Meet standards: GENERAL MOTORS DEXRON III-H • FORD MERCON (97) • ZF TE-ML 2F/03D/04D/14A/17C • ALLISON C-4 • SCANIA (nivel) • M.BENZ 236.1 • VOITH 55.6335.34 (ex.G-607) • MAN 339 V1/Z1 (ex.339 F) • CAT TO-2 • VOLVO (Transmission oil 97341).					
	<b>ATF DEXRON III</b>					
	46 (10W)			[-39..>200]		
<b>21 PAO 100% SINT API</b>	100% synthetic Lubricant Oil. Special for axles and transmissions under severe work conditions and/or high loads. It reduces the work temperature. Allow changed for up to 300.000 km. Recommended in heavy and light vehicles or with hypoid gears that are under high efforts.					
	21 PAO 80W90 100% SINTETICO: API GL-5, MAN 342 Typ S 21 PAO 21 PAO 75W80, 75W85: API GL-4 ENGRANAJES					
	21 PAO 75W80 100% SINTETICO: API GL-4		21 PAO 75W85 100% SINTETICO: API GL-4		21 PAO 80W90 100% SINTETICO: API GL-5	
	65 (80)	[-42..>240]	80 (85)	[-42..>250]	75 (90)	[-42..>250]
<b>HIDROCOOL 100% SINTÉTICO</b> Automatic Transmissions	ATF that allows soft changes and high temperature works. Formulated to meet the viscosity and friction requirements in transmissions and power shift transmissions that work not only in normal conditions but also in very severe conditions .High-end hydraulic systems Not use is CVT type transmissions .Meet standards: JASO M315 Type 1A ; Toyota T-IV ; Nissan MATIC Fluid C/D/J; Hyundai; Subaru ATF; Isuzu BESCO ATF-III; G.Motors DIII-H; Ford MERCON®; Mitsubishi SP-III; HONDA ATF Z-1; Allison C-4 (level).					
	<b>HIDROCOOL 100% SINTÉTICO</b>					
	32* (174)			[<-42..190]		



## MINERAL

<b>elesa®'s</b> Product	Product's Description		
	Variant	Variant	Variant
	ISO Viscosity (SAE) *40°C Viscosity		ISO Viscosity (SAE) *40°C Viscosity

### AC-TERM-X THERMAL OILS

Heat transfer Oils with ultra-refined paraffinic base. High heat transfer coefficient.  
**elesa® AC-TERM-X-68:** Closed high transfer WITH forced recirculation, working between -12°C and 320°C. Boiling point of 420°C.  
**elesa® AC-TERM-X-460, -800:** Heat transfer baths WITHOUT forced recirculation and with work temperatures between -7°C and 290°C or 300°C respectively. Boiling point of 548°C.

AC-TERM-X-68	AC-TERM-X-460	AC-TERM-X-800
68 (20)	460 (140)	850* (250)

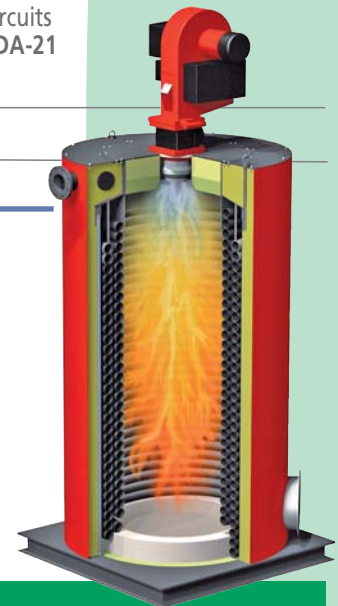
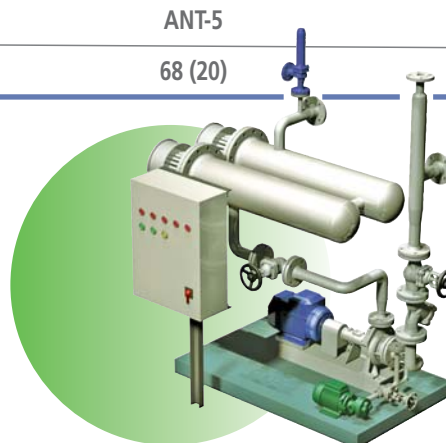
### T THERMAL OILS

High-end of heat transfer with very high oxidation stability:  
**elesa® T-3:** Closed circuits WITH forced recirculation, working between -12°C and 288°C. Boiling Point of 350°C.  
**elesa® T-5:** Closed circuits WITH forced recirculation, working between -12°C and 320°C. Boiling point 420°C.  
**elesa® T-70:** eat transfer baths WITHOUT forced recirculation and work temperatures between -7°C and 300°C. Boiling point of 548°C.

T-3	T-5	T-70
32 (20)	68 (20)	850* (250)

### ANT-5 ATOXIC THERMAL

Heat transfer Oil with ultra-refined paraffinic base. Recommended for closed circuits with forced recirculation, working between -12°C and 320°C. Meet standards FDA-21 CFR. 178.3570 and NSF-H1(H1).



## SYNTHETIC

<b>elesa®'s</b> Product	Product's Description	
	Variant	Variant
	ISO Viscosity (I.V.) *40°C Viscosity	(Pour Point...Flash Point)

### ANT-TÉRMICO SYNT THERMAL SYNTHETIC OILS

100% Synthetic heat transfer Oils with synthetic base, high oxidation stability and wide work temperature range. Close heat transfer circuits WITH forced recirculation, working between -40 and 340°C. Meet standard FDA 21 CFR 178.3570 and NSF-H1(H1). NSF-H1 Registration N° 140331.

ANT-3 TÉRMICO-SYNT		ANT-5 TÉRMICO-SYNT	
32 (135)	[<-60..234]	68 (134)	[<-45..250]

# Do you need a chain lubricant?



# oils for chains, bearings and guides

## MINERAL

elesa® Product	Product's Description					
	Variant		Variant		Variant	
	ISO Viscosity (SAE) *40°C Viscosity			ISO Viscosity (SAE)		
<b>21-P</b> BEARINGS HIGH ADHESIVENESS	Lubricant for bearings that suffer HIGH LOADS. Adhesive and shear resistant. Works with very high pressures and slow velocities. <b>elesa® 21 P-900</b> : Excellent performance on the skids of the jibs. <b>elesa® 21 P-4000</b> : Puts up with acids and water. Meet quality standards <b>DIN 51517 Part 3</b> and <b>API GL4</b> .					
	21-P 460		21-P 900		21-P 4000	
	460 (140)		900* (- -)		4000 (- -)	
<b>MOTOSIERRAS</b> <b>100-150</b>	Lubrication of chainsaw and general lubrication, with high viscosity index, oxidation and corrosion stability, demulsibility and high adherence.					
	125*					
<b>LUBRITEF</b> NONTOXIC OIL PTFE	Excellent lubricant with PTFE. Nontoxic. High adherence to the metallic surfaces, great penetration, water displacing, with anti-rust properties, antiwear and corrosion protection. Designed for all kind of Clean Industry. Meet standards <b>FDA-21 CFR. 178.3570</b> and <b>NSF-H1(H1)</b> . <b>NSF Registration N°.136827</b>					
	125*					
<b>EUROMAR</b>	Synthetic Oil with high adhesiveness and penetration. Lubrication of wires and chains in saline environments. Does not polymerize at high temperatures.					
	460					
<b>SW</b> OIL FOR GUIDES	Anti-stick-Slip special for lubrication of guides and sliding of Tool Machines. E.P, Adhesiveness and Lubricity features, those avoid the Stick-Slip effect in Slow Movements. High Loads even in Vertical Guides because of its anti-drip behavior. High Oxidation Resistance. Also applicable in hydraulic circuits ( <b>elesa® SW 6</b> ) and in Heavy Engine Systems ( <b>elesa® SW 16</b> ).					
	SW - 6			SW - 16		
	68 (20)			220 (90)		
<b>16</b> GRAPHITE SUSPENSION	A-Light, B-Medium and C-Heavy. 16-A-Windshield wipers and soft-load sliding elements at extreme temperatures. 16-B-Train gears and with high-load sliding elements. 16-C-Strong gun sliding and cursor elements at high temperatures.					
	16 - A		16 - B		16 - C	
	32 (95)	[-12..>210]	100 (95)	[-12..>245]	>500* (95)	[-9..>300]
<b>ANT 1500</b> <b>CADENAS</b> <b>ATÓXICOS</b>	Lubrication of systems that suffer high loads and under pressure water washes. Chains, open gears and worm gears, cylindrical, conical and helical. <b>FDA-21 CFR. 178.3570</b> and <b>NSF-H1(H1)</b> .					
	1500					



# oils for chains, bearings and guides

## SYNTHETIC

elesa® Product	Product's Description												
	Variant			Variant									
	ISO Viscosity (I.V.) *40°C Viscosity			(Pour Point...Flash Point)									
<b>ELECTRO-GRAPH 18</b>	Synthetic lubricant Fluid of high temperature that doesn't make wastes and with a very high Extreme Pressure. Repels dust. Bearings and boilers' parts, oven chains, pieces forged, etc. elesa® 18BB is applied in the lubrication of the Clinker oven ring at cement industries, giving a long-lasting maintenance. MIL-G-17745 (NORB).												
	ELECTRO-GRAPH 18F		ELECTRO-GRAPH 18B		ELECTRO-GRAPH 18BB								
	>70* (180)	[- 45..240]	>320* (180)	[-30..260]	Pasta fluida (180)	[-30..260]							
<b>26 BEARINGS AND GUIDES</b>	Economic synthetic oil for lubrication of chains, guides and rolling bears at high temperatures. High adherence. Ceramic tyle Industry. Works between - 30°C and 265°C.												
	26			26 AS									
	290* (-)	[-13..265]	130 (-)	[-36..265]									
<b>36 BEARINGS AND ROLLING BEARINGS NO WASTE</b>	Lubrication of high-end bearings. Rolling bearings and oven chains. Molybdenum disulfide dispersion in synthetic oils. No waste.												
	70* (180)			[-40..245]									
<b>36 AS/AS-SB OVEN CHAINS</b>	Lubricant for temper and painting Oven Chains. Excellent properties at HIGH and LOW TEMPERATURES. The variant elesa® 36AS/-SB does not contain MoS2.												
	90* (85)			[-35..250]									
<b>46 AS OVEN CHAINS WITHOUT FUMES</b>	Lubrication of Oven chains and bearings, excellent features against oxidation, very high hydrolytic stability and no waste and fumes. Long-lasting. elesa 46 AS/-SB don't contain MoS2.												
	46 AS and 46 AS-SB		46 AS-C and / AS-C-		46 AS-CC and / AS-CC-SB								
	140* (140)	[-25..326]	254* (140)	[-33..310]	400 (145)	[-30..300]							
<b>FTS-150</b>	Economic synthetic oil for bearings and oven chains until 225°C. Good penetration and moisturizing power, high adherence and no cinders formation. Ceramic tile Industry.												
	150* (114)			[-20..246]									
<b>570 590 HIGH TEMPERATURE OILS</b>	Synthetic oil applicable in lubrication points under high temperatures, no waste formation. No miscible with mineral oils neither other synthetic oils. Work Temperature: -30 to 200°C.												
	570			590									
	105* (188)	[-40..274]	170* (196)	[-34..276]									
<b>X-PFC PERFLUOROCARBON LUBRICANT</b>	Lubricant oil with excellent thermal and chemical stability and electrical resistance. Indicated for vacuum pumps, because of its high chemical stability and very low evaporation level. Suitable for works with pure Oxygen and highly corrosive products. Meets standards NSF-H1 and FDA-21 CFR. 178.3570 and it is registered in InS-H1 with N°. 1795809.												
	X-PFC												
	345* (135)			[-25..260]									
<b>ANT-POLAR CHAINS</b>	100 % synthetic Oil for tunnel freezing chains. Ideal for Food Industry. Synthetic Oils and additives free of ash, approved for FDA 21 FCR 178.3570 for incidental food contact. Meet standard NSF-H1. Very good compatibility with joints and paints. Lubricating Oils for Chains that work under very low and very high temperature conditions, thanks to the wide range where the product is an stable fluid.												
	ANT-15 POLAR Cadenas	ANT-32 POLAR Cadenas	ANT-46 POLAR Cadenas	ANT-68 POLAR Cadenas	ANT-100 POLAR Cadenas	ANT-150 POLAR Cadenas	ANT-220 POLAR Cadenas						
	15	[-60..80]	32	[-60..225]	46	[-55..245]	68	[-45..250]	100	[-30..250]	150	[-30..260]	220



# oils for chains, bearings and guides

SYNTHETIC			
elesa® Product	Product's Description		
	Variant		Variant
	ISO Viscosity (I.V.) *40°C Viscosity		(Pour Point...Flash Point)
<b>BIO LUB X-46</b>	Synthetic biodegradable Oil for lubrication of tracked chains, wires and outdoor works.		
	46 (190)		-50 (220)
<b>FSA ANTISTICK SYNTHETIC FLUID</b>	Antistick non-colored Synthetic Fluid Lubrication of bearings and plastic and polymer chains. Antistick in hot cutting blades and stripping in plastics forming. Anti-projections in welding process. Available in aerosol. elesa® FSA PULVERIZABLE is a variant of elesa® FSA-100 that allows easy pulverization. Meet standards: FDA 21CFR 178.35 70 y NSF- H1(H1).		
	FSA-100		FSA-1000
	68 (--)	[-55..>275]	765 (--)



# lubricants for brake systems

MINERAL				
elesa® Product	Product's Description			
	Variant	Variant	Variant	
	ISO Viscosity (SAE) *40°C Viscosity		ISO Viscosity (SAE)	
<b>HIDROFRENOS</b>	Excellent yield in hydraulic systems and automatic transmissions. y VICKERS M-2950-S for mobile automatic hydraulic systems and ALLISON C4			
	100 (20)			
<b>TRACTOR UTTO</b>	Multifunctional Lubricating Oil for hydraulic systems, transmissions and wet brakes. Ford M2C 134 A/B/C/D; John Deere JDM 20C/D; Case New Holland MAT 3525/3526; API GL-4; ALLISON C4; Massey Ferguson CMS 1145 y M1141(permatran III) M1143, M1135; Denison UTTO HF-0 a HF-02; Eaton Vickers (Mobile Hydraulic systems- Brochure 694); Ford M2C86-B Massey Ferguson M1110/1127A&B/1129A; Caterpillar TO-2; Case MS 1204 / 1206 / 1207 / 1209; Kubota UDT; JCMAS HK P-041 & P-042; John Deere J20A/B; AGCO-Allis-Chalmers Power Fluid PF-821 XL; Ford ESN M2C 41B/48B/53A; White Q-1826; Volvo WB101; ZF TE ML 03E y 05E.			
	UTTO 10W30			
	62* (10W30)			
<b>TRACTOR STOU</b>	Multifunctional Oil. ONLY ONE oil for the entire machine. Meet the specifications of the different systems that have to be lubricate: Multigrade Engine: API CF/CE/SF; CCMC D4; Mercedes Benz 227.1. Transmissions (manual and automatic): ZF TE ML 06 parts B&C; ALLISON C4; API GL-4 Wet Brakes and hydraulic systems: <b>STOU</b> (MASSEY FERGUSON M1139 / M1144, JOHN DEERE J27, FORD M2C159 B, FNH Material Specifications-82009201/2/3) and <b>UTTO</b> (MASSEY FERGUSON M1143 & M1135, JOHN DEERE J20C/D, FORD M2C134-D).			
	STOU 10W30		STOU 15W40	
	65* (10W30)		114* (15W40)	
<b>TRANSMISIONES TO-4</b>	New technology oil for machinery and mechanisms with high friction static coefficient, especially power shift transmissions, differentials, torque converters, wet brakes, gearboxes, clutches... Meet standards: Caterpillar TO-4; Komatsu KES07.868.1; Allison C4 (off road); Caterpillar TO-2 (obsolete), API CF2, Euclid, Vickers M-2950-S, Eaton-Fuller*, Dana* o Tremac/TTC* (* Where it is asked for TO-4).			
	SAE 10W		SAE 30	SAE 50
	36* (10W)		100 (30)	175* (50)

# lubricants for brake systems

SYNTHETIC			
elesa® Product	Product's Description		
	Variant	Variant	Variant
	ISO Viscosity (I.V.) *40°C Viscosity		(Pour Point...Flash Point)
<b>LIQUIDO DE FRENOS-DOT 3, 4 &amp; 5</b>	Hydraulic brakes systems and clutches at automotive industry. DOT 4 meet standards: UNE 26-109-88 certified by INTA, SAE J-1704, FMVSS N-116 DOT 4, ISO 4925		
	LIQUIDO DE FRENOS DOT - 3, -4, -5		



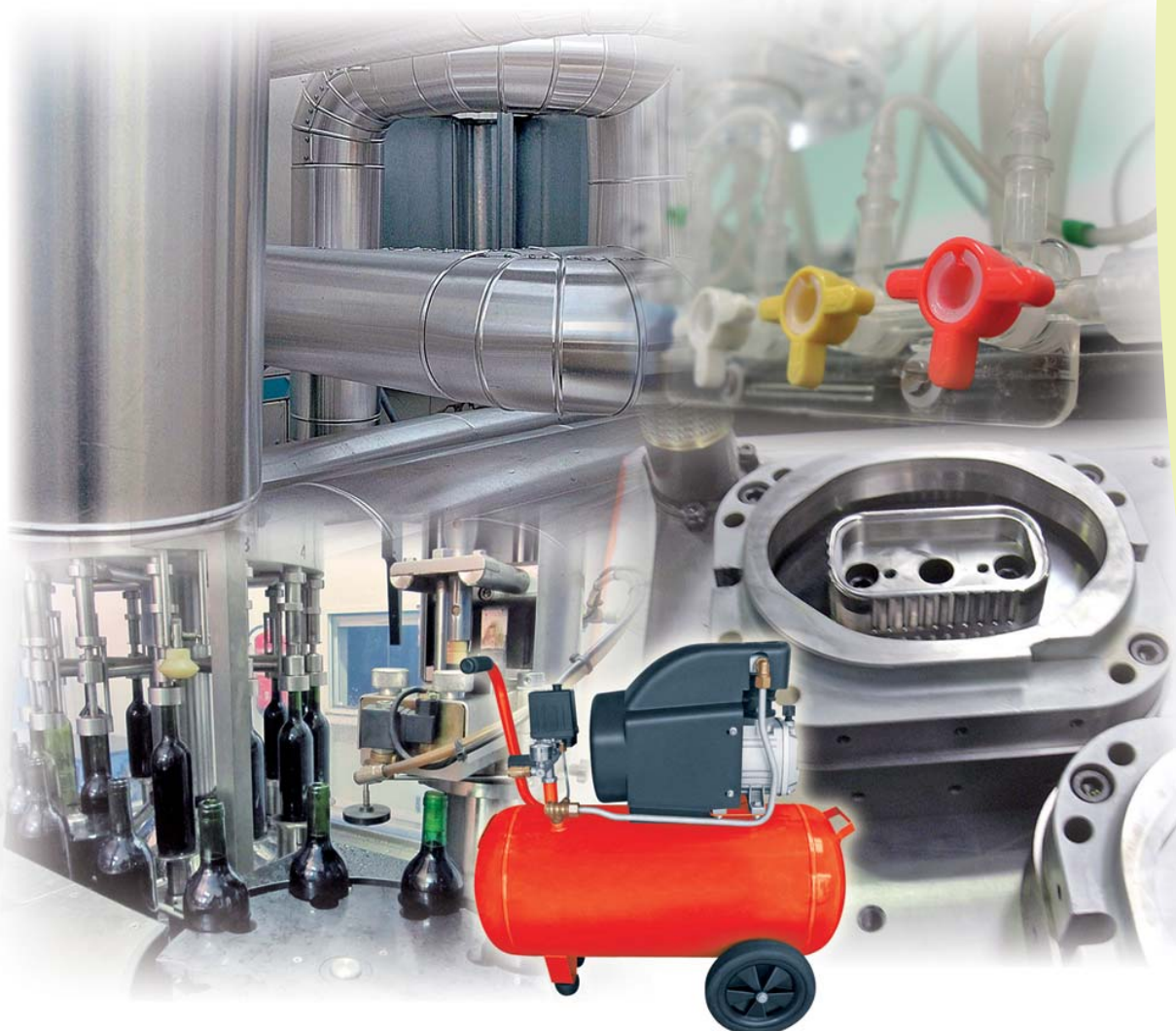
# general lubrication

MINERAL							
elesa® Product	Product's Description						
	Variant		Variant		Variant		
	ISO Viscosity (SAE) *40°C Viscosity				ISO Viscosity (SAE)		
<b>AEG HYDRAULIC AND GEARS</b>	Lubricants for gear lubrication, rolling bearings and hydraulic circuits, steam turbines and vertical water turbines and air compressors where the discharge air temperature is moderate, close straight gears, helical, conical and worm gears.						
	AEG-22 22 (10)	AEG-32 32 (10)	AEG-46 46 (20)	AEG-68 68 (20)	AEG-100 100 (30)	AEG-150 150 (40)	AEG-220 220 (50)
<b>ANT</b>	General lubrication oils, hydraulic systems, gears and compressors without extreme conditions and loss lubrication. Approved for NSF for Food Industry. FDA-21 CFR. 178.3570 and NSF-H1 registration N°. 136819.						
	ANT-5 68 (20)	ANT-8 100 (30)	ANT-10 150 (40)	ANT-16 220 (90)			



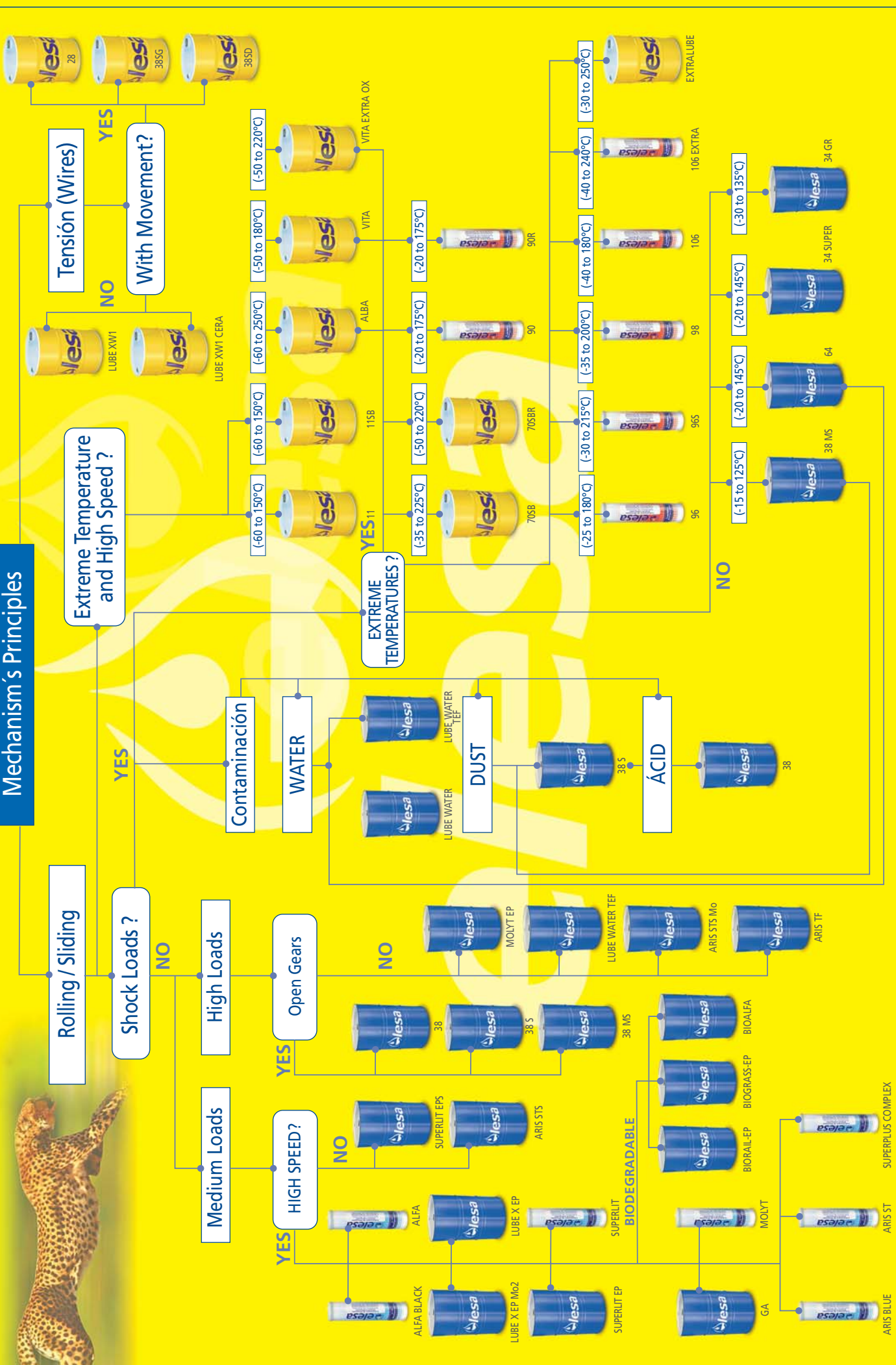
## SYNTHETIC

elesa® Product	Product's Description							
	Variant				Variant			
	ISO Viscosity (I.V.) *40°C Viscosity				(Pour Point...Flash Point)			
<b>ANT</b> <b>100%</b> <b>SINTÉTICOS</b>	100% Synthetic Oil applicable in points with very low or very high temperature (-60 to 270°C). Freezing chains, oven chains, forming and stamping and rotary compressors. (elesa® ANT-5 SINTÉTICO). Meet standards NSF-H1(H1) and FDA 21 CFR 178.3570.							
	ANT-3 SINT		ANT-5 SINT		ANT- 10 SINT		ANT-30 SINT	
	32 (135)	[-64..230]	68 (135)	[<-45..>250]	150 (135)	[<-40..>250]	400* (149)	[<-30..>280]
<b>FSA</b> <b>ANTISTICK</b> <b>SYNTHETIC FLUID</b>	Synthetic nonstick colorless fluid. Lubrication and maintenance of rubber, mechanisms and plastic gears, nonstick in blades for hot cutting and demolding in plastic forming. Anti-projections in welding. Available in aerosol. elesa® FSA PULVERIZABLE is a variant of elesa® FSA-100 that facilitates spray it. Meets standards FDA 21CFR 178.35 70 and NSF- H1(H1).							
	FSA-100				FSA-1000			
	68(..)		[-55..>275]		765*(..)		[-50..>320]	



# Multifunctional Greases

## Mechanism's Principles





# greases for bearings, rolling bearings, etc. Temperature until 145°C

elesa®'s Product	Product's Description				
	NLGI	Dropping Point (°C)	Welding Load 4 Ball test (kg)	Velocity Factor	Working Temperature Range (°C)
<b>LUBE-XW1</b>	Grease with good penetration and high antirust protection. Product developed mainly for padding and protection of prestressing steel wires. Applicable at room temperature. Meet Ministry of development's standard ISO HP8-96 and the euro-standard EN 1537.				
	2	190	--	--	-20 to 135
<b>LUBE XW-CERA-B</b> <b>LUBE XW-CERA-Tabletas</b>	Productos destinados a la protección de rodamientos y mecanismos metálicos durante el funcionamiento vertical. Para usos industriales y de obras públicas. LUBE XW-CERA cumple la norma EN ISO 1537.				
<b>CERA-LD240-1</b>	Producto destinado a la protección de rodamientos y mecanismos metálicos durante el funcionamiento vertical. Favorece el deslizamiento.				
<b>ALFA &amp; ALFA BLACK</b>	Multipurpose lithium Grease with high mechanical work resistance, high pour point and excellent stability to aging. Ideal for general industry lubrication. Works in wide velocity range. Medium load and temperature. ALFA BLACK contains Extreme Pressure solid additives.				
	2	203	250 / 400	600.000	-25 to 135
	2	206	250 / 400	400.000	-10 to 145
<b>LUBE-X-EP</b>	General purpose grease, with extra E.P. additivation. High resistance to mechanic Works, high dropping point, aging stability and high adhesiveness. General lubrication of excavators and aggregate plants.				
	2	206	250	400.000	-20 to 145
<b>SUPERLIT</b>	Multipurpose lubricant Grease for industrial use and automotive industry. Stable to oxidation. High antirust protection. Meet standard NSF-H2(H2). It is recommended 1or 0 consistency for centralize systems.				
	2	206	315	500.000	-20 to 145
<b>SUPERLIT EP/2</b> <b>SUPERLIT-EPS</b>	Grease for bearings and rolling bearings under high continued loads, vibrations and shock loads. Industrial and automotive use. Stable to oxidation. High antitrust protection. Also available in NLGI 3, 1, 0, 00, 000. Meets standard NSF-H2(H2). Variant SUPERLIT EPS for steel industry, cement industry, public works, etc.				
	2	206	400	500.000	-20 to 145
	2	206	400	300.000	-20 to 145
<b>SUPERPLUS COMPLEX TECH</b>	Technical Grease for industrial and automotive use. Excellent for applications where high temperatures are reached, but are not due to the efforts but due to the environment where it works. High resistance to oxidation and E.P. Meets standard NSF-H2(H2).				
	2	>265	250	500.000	-20 to 160
<b>ARIS - ST</b>	Multipurpose Extreme Pressure grease for industrial use (steel, mining, chemistry, automotive, navigation, etc.) Advisable in plain and rolling bearings under high loads, shocks and vibrations. Green color. Meets standard NSF-H2(H2).				
	2	206	400	500.000	-20 to 145
<b>ARIS - STS</b> <b>ARIS STS MoS2</b>	Multipurpose Extreme Pressure Grease with low and medium velocities, for industrial use (steel, mining, chemistry, automotive, navigation, etc.) and automotive. Advisable in plain and rolling bearings under high loads, shocks and vibrations. Green color. Meets standard NSF-H2. elesa ARIS STS-MoS2 is a variant that contains Molybdenum Disulfide as solid security Extreme Pressure additive.				
	2	206	>400	300.000	-20 to 145
<b>ARIS-TF</b>	Grease with high PTFE content. Hydrophobic, stable to oxidation and supports shock loads and long-lasting lubrication periods. Excellent yield in screw. Ideal for industry and automotive. Meets standard NSF-H2(H2).				
	2	190	500	500.000	-20 to 145
<b>ARIS BLUE</b>	Lithium lubricating Grease and Extreme Pressure for industrial use and automotive. Specially indicated in points with strong shock loads and loaded sliding movements. High adhesiveness and resistance to wash with water. Excellent for bearings, guides, caps, working mechanisms at slow to medium velocity for any kind of industry. Meet standards NSF-H2 and DIN-51825:KP2N-20.				
	2	206	>400	300.000	-20 to 145
<b>GA</b>	Multipurpose E.P. Grease. It contains antirust additives, very active and oxidation inhibitors. Advisable in plain and rolling bearings under high loads, vibrations and shocks. With Molybdenum Disulfide as a security additive, that gives it its color. Meet standard NSF-H2(H2).				
	2	206	400	500.000	-20 to 145
<b>MOLYT</b>	Higher grease for automatic systems in Automotive and Public Works Industry. Formulated with Extreme Pressure additives and Molybdenum Disulfide. High protection against corrosion and oxidation resistance.				
	2	200	500	500.000	-20 to 145
<b>MOLYT EP</b>	Grease ideal for mechanisms where Extreme Pressure and water washout are required. Excellent for plain and rolling bearings under high loads, vibrations and shocks. Steel industry, mining, chemistry, navigation, cement industry, automotive and Public Works Machinery.				
	2	206	620	500.000	-20 to 145

# greases for bearings, rolling bearings, etc.

## Temperature until 145°C



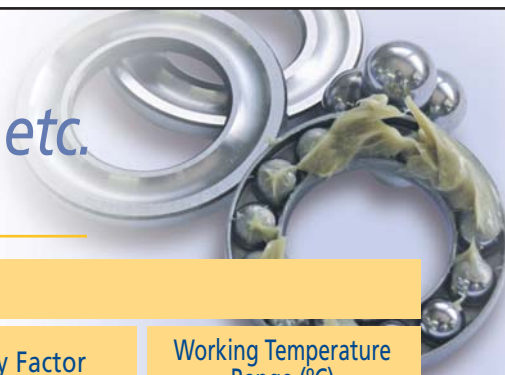
elesa®'s Product	Product's Description				
	NLGI	Dropping Point (°C)	Welding Load 4 Ball test (kg)	Velocity Factor	Working Temperature Range (°C)
<b>ELESA 24 EP</b>	Precision and Extreme Pressure Lubricant for Heavy Industry that needs extraordinary properties to resist high loads, shocks, overloads, water contamination and temperature changes between -25 and 120°C. Special interest in Steel industry, cement, navigation, mining and chemical.				
	2	185	700	500.000	-20 to 145
<b>ELESA 34</b>	Grease for universal use, formulated to lengthen three or four times the duration of lubrication in maintenance of bearings, ball joints, universal joint couplings, etc.				
	2	206	800	500.000	--
<b>ELECTRO-MOLY 34 SUPER</b>	High load capacity and excellent stability. Meets the most severe services in automotive and industry. Application in high responsibility points, with difficult access, long lubrication cadences and LIFETIME LUBRICATION. High Extreme Pressure additives content. Meets: NSF-H2 (H2) and MIL M 7866.				
	2	206	800	500.000	-20 to 145
<b>64</b>	Adhesive and HYDROPHOBIC. Developed to hard Works in mechanisms under long-term lubrication periods, in wet environments or with alkaline or acid steams or in contact with coolants. The lubrication intervals are multiplied by 10. Excellent for bearings and rolling bearings, automatic car washes, bottling plants, canning, poultry slaughterhouses, etc. Meets standard NSF-H2(H2).				
	2	>180	800	500.000	-20 to 145
<b>LUBE WATER</b> <b>LUBE WATER TEF</b>	Formulated for working in all kind mechanisms with water, keeping its stability and consistency grade, as well as its EP properties. Meet NSF-H2(H2) and standards MIL-G-24139, COD-OTAN-G-450 and DEF-STAN-91-28/1. ELESA LUBE WATER TEF variant of LUBE WATER that contains PTFE, providing greater water resistance and better Extreme Pressure features. Excellent results in Steel industry.				
	2	190	400	300.000	-20 to 135
<b>BIORAIL - EP</b>	Grease for sides of railway wheels and needle changes. It supports High loads, Dust, Water, UV light and a wage temperature range. It protects against wear and doesn't contaminate environment. Available in NLGI 2 and 00-000.				
<b>BIOGRASS-EP</b>	Biodegradable general lubrication grease. Wage temperature range. It supports works with water and has a good antirust protection.				
<b>BIOALFA</b>	Biodegradable general lubrication grease. Wage application field in public Works, agriculture, and renewal energies. Fluid Consistency. Lubrication in needle changes.				



# greases for bearings, rolling bearings, etc. Extreme Temperature, -70°C to 250°C

elesa®'s Product	Product's Description			
	NLGI	Dropping Point (°C)	Velocity Factor	Working Temperature Range (°C)
<b>ELECTRO-MOLY 11 &amp; 11 SB</b>	Bearings and mechanisms under very low temperature and/or very high revolutions. Precision mechanisms packed for life. Cream color. Its variant <b>ELESA ELECTRO-MOLY 11</b> contains MoS2 (Molybdenum Disulfide).			
	2	>250	>1.000.000	-70 to 150
<b>VITA</b>	Excellent grease for extended lubrication and that has top up with extreme temperatures and high loads, in rolling bearings and mechanisms where can be incidental contact with food. Ex.: bottle packaging, can closers, pelleting feed, etc. Meet standard <b>NSF-H1 (H1)</b> with N°.140329 and <b>FDA-21-CFR.178.3570</b> .			
	2	>260	600.000	-50 to 180
<b>VITA EXTRA-OX</b>	Excellent grease for lubrication at high temperatures and with VERY HIGH LOADS and high steam concentration in rolling bearings and mechanisms where can be incidental contact with food. Ex: Decanters-centrifuges, bottle packaging, can closing machines, pelleting feed, etc. Meet standard <b>NSF-H1(H1)</b> and <b>FDA-21-CFR.178.3570</b> .			
	2	>260	500.000	50 to 220
<b>ELESA 70-SBR</b>	Designed for systems that work with extreme conditions with High EP, very high VELOCITIES and very high or very low TEMPERATURES. Excellent for sliding bearings, rolling bearings, joints, gears, can closing machines, etc. Centrifuges, oven chains and freezing... Meet standards <b>NSF-H1(H1)</b> with N°. 140330 and <b>FDA 21 CFR 178.3570</b> .			
	2	>300	500.000	-50 to 220
<b>ALBA</b>	Designed for critical points with extreme temperatures, free of waste. High PTFE content. Does not sag neither smear, being very appropriate in industrial bakery chains, textile industry and air painting chains Meets standards <b>NSF-H1 (H1)</b> and <b>FDA-21-CFR.178.3570</b> . Available in aerosol.			
	000	-	-	-60 to 250
<b>70 70-SB</b>	Synthetic Grease free of waste. High content in MoS2 (Molybdenum Disulfide). Capable to withstand high loads. Resistant to gaseous hydrocarbons and chlorinated solvents. Compatible with all elastomers. Suitable for threaded connections in city - gas. <b>ELESA 70-SB</b> is White and does not contain MoS2			
	2	>300	200.000	-35 to 225
<b>90</b>	Lubrication of bearings, rolling bearings, mechanisms at medium-high or high temperature with frequent lubrication. Water and aggressive pollutant resistant. Contains MoS2. Other available consistencies NLGI 3, 1, 0. Formulated according to <b>DIN 51825-KPF2P-20</b> and <b>ISO-L-XBEFB-2</b>			
	2	>300	100.000	-20 to 175
<b>90-R</b>	Variant of Elesa 90 with higher velocity factor. Has very good E.P that gives extra protection against shocks and vibrations. Specially designed for centrifugation systems in steel industry.			
	2	>280	500.000	-20 to 175
<b>90 TEF</b>	Grease for low/medium velocities and high loads thanks to its PTFE particles. Very adhesive, resistant to water and concentrated alkaline or acid solutions washed. High corrosion protection.			
	2	>300	100.000	-20 to 175
<b>ELECTRO-MOLY 96</b> <b>ELECTRO-MOLY 96S</b>	Lubricant grease without dropping point that allows it to work with adverse conditions of temperature, pressure and corrosive environments. Excellent for bearings and rolling bearings under high temperatures, rolling mills in Steel industry. High oxidation resistance. High load capacity. Corrosion protection. Ideal for ovens like paper dryers and rolling bearings and oven extractors in cement industry and eccentric in corrugated cardboard, where there is also a shock work. Pressure valves in thermal power plants, glass industry, etc. High content in MoS2. <b>ELESA ELECTROMOLY 96S</b> has more additives, putting up with temperatures until 215°C.			
	2	>300	100.000	-25 to 180
<b>ELECTRO-MOLY 98</b>	High-Temp grease without dropping point. Formulated specially for mechanisms and rolling bearing lubrication, oven chains for paint drying, dryer batteries in paper mills, in a wide temperature range. Very high corrosion and oxidation protection. Enhanced with high MoS2 content. Meets standards <b>MIL-G-23549-C</b> , <b>OTAN Code TG-01</b>			
	2	>300	250.000	-35 to 200

## greases for bearings, rolling bearings, etc. Extreme Temperature, -70°C to 250°C



elesa®'s Product	Product's Description			
	NLGI	Dropping Point (°C)	Velocity Factor	Working Temperature Range (°C)
<b>ELESA 106</b>	Lubricant with minimum evaporation at high temperatures, does not cracking neither leave gummy residues, and has a high load capacity. Contains MoS <sub>2</sub> . Ideal lubrication of electric fans in furnaces and glass camps. Biodegradable grease.			
	2	>260	400.000	-40 to 240
<b>ELESA 106 EXTRA</b>	VERY RESISTANT grease at HIGH TEMPERATURES. Specially developed for rolling bearings in ovens with long-lasting lubrication periods. Free of waste and lacquer. Pass standard DIN-KPF-E-2-U-40.			
	2	--	200.000	-40 to 240
<b>EXTRALUBE</b>	PTFE grease, able to work continuously for a year at 250° C. Stable at Works with pure Oxygen, chlorinated organic solvents attacks, and highly corrosive products. Has PTFE, E.P properties. Excellent for ball rolling bearings lubrication, rollers, sheaves of drying tunnels, etc. Meets standard NSF-H1(H1).			
	2-3	>300	300.000	-30 to 250

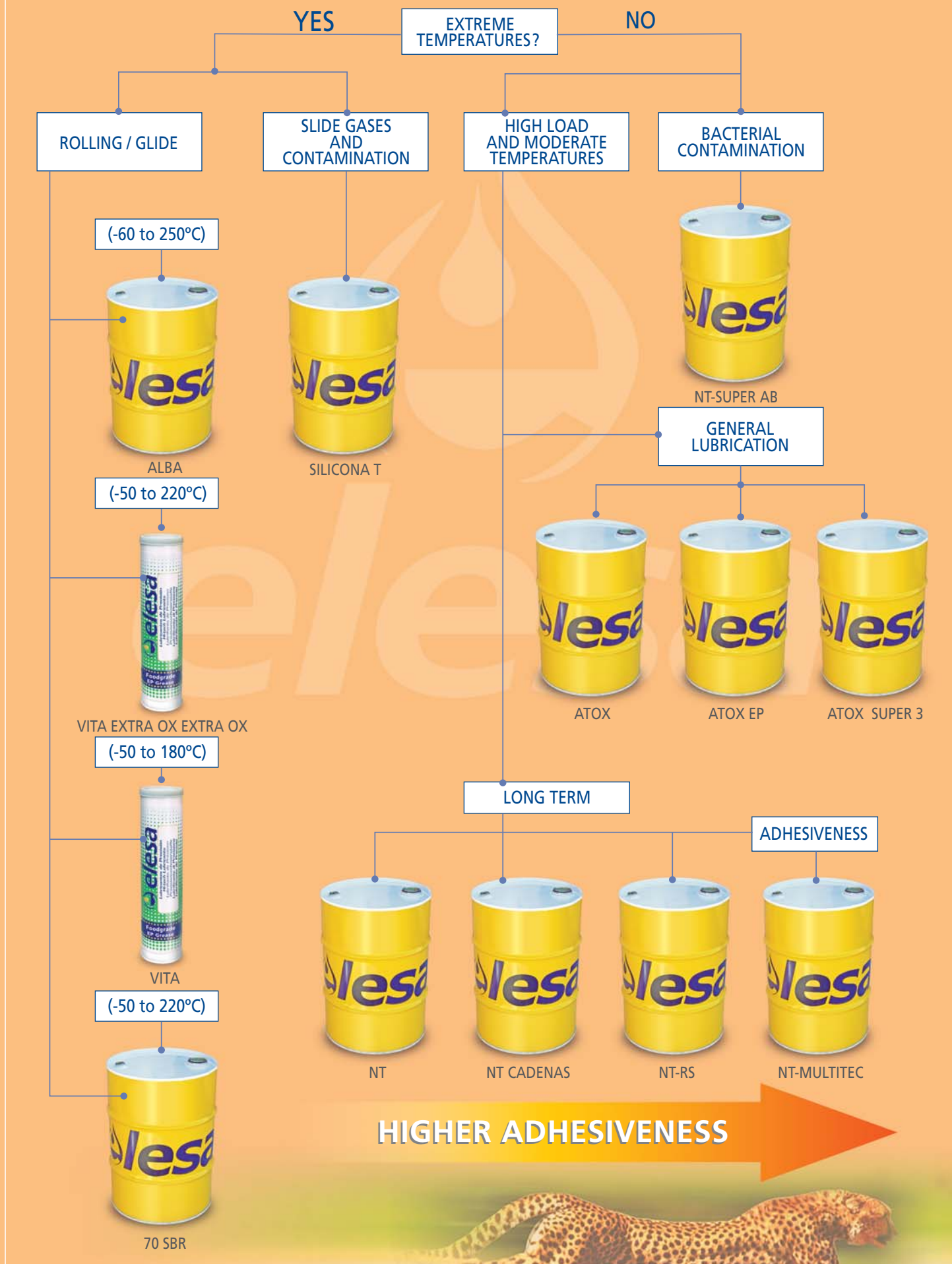
## grease for gears, chains and wires



elesa®'s Product	Product's Description			
	NLGI	Dropping Point (°C)	Working Temperature Range (°C)	
<b>28</b>	Superfluid Grease with additives antioxidant, antiwear, EP, pour point depressor and high Molybdenum Disulfide percentage. Applicable in wires, high loaded chains and rolling bearings with reduced dimensions. Because of its high penetrability, it is ideal for difficult access points. Available in aerosol.			
	Superfluid	-	-30 to 150	
<b>ELECTRO MOLY 34-GR</b>	Synthetic Grease expressly formulated for gearbox lubrication, in which, because of its special features, it is required the use of grease. It allows lower the working temperature in the gearbox approximately in 20-25%.			
	0-00	196	-30 to 150	
<b>38</b>	Grease for lubrication of wires, chains and open gears. Does not attract dust. Very high adhesiveness and very high load capacity, for outside Works: dredging, public Works, cement industry, shipbuilding, crane gears turning... (* Drain Temperature). <b>38 CADENAS</b> is a variant of ELESA 38 with higher fluidity for an easier application.			
	0	80*	-10 to 50	
<b>38-MS 38-MSD</b>	Lubricant Grease for chains and gears with Molybdenum Disulfide, with high adhesiveness, high EP, resistant to work and washes with water. Excellent for open gears and STONE CUTTING chains. High yield in crane skids lubrication. Excellent corrosion protection, even in saline environment. elesa® 38-MSD is a variant that allows being applied with pulverization.			
	0-1	172	-15 to 125	
<b>38 S</b>	Very adhesive, resistant to hot water, acids and bases washes and very good lubricity and load capacity. Does not attract dust. Open gears, wires, chains and guides with slow movements under high loads. Recommended for crow crane and crane in blast furnaces and shipbuilding industry. Also available in aerosol. elesa® 38 SD is a variant of 38S but more fluid for an easier application in chains and wires.			
	2	Does not have	-15 to 150	
<b>38 SG</b>	Recommended for mechanisms under the most severe working conditions in Cement industry, Quarries, Public Works, Shipbuilding machinery, Stone cutting chains and drag slides on cranes. Allows visualize the mechanisms. elesa® 21 P 4000-SB for an oil application.			
	1/2	172/190	0 to 125 / 0 to 135	
<b>ARIS-TF</b>	Grease with high PTFE content. Hydrophobic, stable to oxidation and withstand shocks loads and long-lasting lubricating periods. Available in aerosol. Meets standard NSF-H2(H2).			
	2	190	500	500.000
<b>LUBE WATER TEF</b>	With PTFE, providing greater water resistance and better Extreme Pressure features. Excellent results in Steelmaking. Meets standard NSF-H2(H2) and MIL-G-24139, COD-OTAN-G-450 and DEF-STAN-91-28/1.			
	2	190	400	300.000



# Do you need a non-toxic grease?



**HIGHER ADHESIVENESS**



# food industry grease

## Clean Industries

elesa®'s Product	Product's Description			
	NLGI	Dropping Point (°C)	Velocity Factor	Working Temperature Range (°C)
<b>BIANCA</b>	Non-toxic white-translucent Grease, without drop point, versatile for multiple points of application in industry, especially in food sector. Machinery lubrication in clean industry. Free of solid lubricants: avoids the clogging of lubricating circuits. Multipurpose general lubrication. Transport sheaves, bottling, guides, zippers, packaging clips, etc. Meets NSF-H1 y FDA 21 CFR 178.3570 and it is registered in In S-H1 with N°. 1795810.			
	2	>260	600.000	-25 to 150
<b>ATOX</b> <b>ATOX EP</b>	Multifunctional grease because of its relation quality-price-versatility. High EP, stable to oxidation and good corrosion protection. Oily White and with Teflon, do not stain or odor-producing. Ideal for all kind of industry, multiple applications. elesa® ATOX meets standards NSF-H1(H1) and FDA-21-CFR. 178.3570 and it is registered in Ins-H1 with N°. 1795806. Variant elesa® ATOX EP with higher EP.			
	2	>260	500.000 300.000	-25 to 150
<b>ATOX GR</b> <b>ATOX SUPER 3</b>	Non-toxic greases with PTFE and without dropping point, prepared for withstand high loads. Ideal for all kind of industry and especially for feed pelleting, decanters, centrifugal machines and pharmaceutical industry. Meets standard NSF-H1(H1) and FDA-21-CFR.178.3570.			
	1 / 3	>260 / >260	500.000 / 500.000	-25 to 150 / -25 to 150
<b>NT</b>	Grease for lubrication of rolling bearings and mechanisms in food industry. Excellent EP features and protection against corrosion. Feed pelleting, cutting machines... Meet standard NSF-H1(H1) with Registration N°. 140324 and FDA 21 CFR 178.3570. Available also in NLGI 1, 0, 000.			
	2	>260	500.000	-30 to 150
<b>NTRS</b>	Grease with High EP and high adhesiveness, especially recommended for works with water and steam. Can closing machines, bottled machines, corking, zippers, packing forceps, sugar industry devices, etc. Meet food standard NSF-H1(H1) with Registration N°. 140325 and FDA 21 CFR.			
	2	>260	400.000	-25 to 150
<b>NT MULTITEC</b>	Grease with high EP, protects against sliding and rolling. High oxidation stability and excellent corrosion protection. High adhesiveness and resistant to Works with water and steam. Wide work temperature and velocity range. Especially suitable for can closing machines sand washed lines. Meets standards NSF-H1(H1) and FDA-21-CFR.178.3570.			
	2	>260	150.000	-15 a 150
<b>NT SUPER-AB</b>	Grease for Food industry that gives bactericide protection to the lubricated system. Avoids bactericide grown, bad odors and all the associated problems.			
	2	>260	400.000	-25 to 150
<b>NT CADENAS</b>	Non-toxic fluid grease to improve penetration and to make easier the application by spraying. With Teflon, White and without dropping point. Especially recommended for machinery lubrication in clean industries. Meets food standard USDA-H1 and FDA 21 CFR 178.3570.			
	-	>260	600.000	-25 to 150
<b>NT - ePACK</b>	Non-toxic White grease, especially designed for automatic Brick packaging machinery, in food industries. For lubrication in clean industries where a lubricating film that does not spot is needed (ex. textile industry). Does not contain solid lubricant. Especial for centralized system conductions. Meets food standard NSF-H1 y FDA 21 CFR 178.3570. Recommended for ELOPAK.			
	2	>260	600.000	-25 to 150



# food industry grease

## Clean Industries

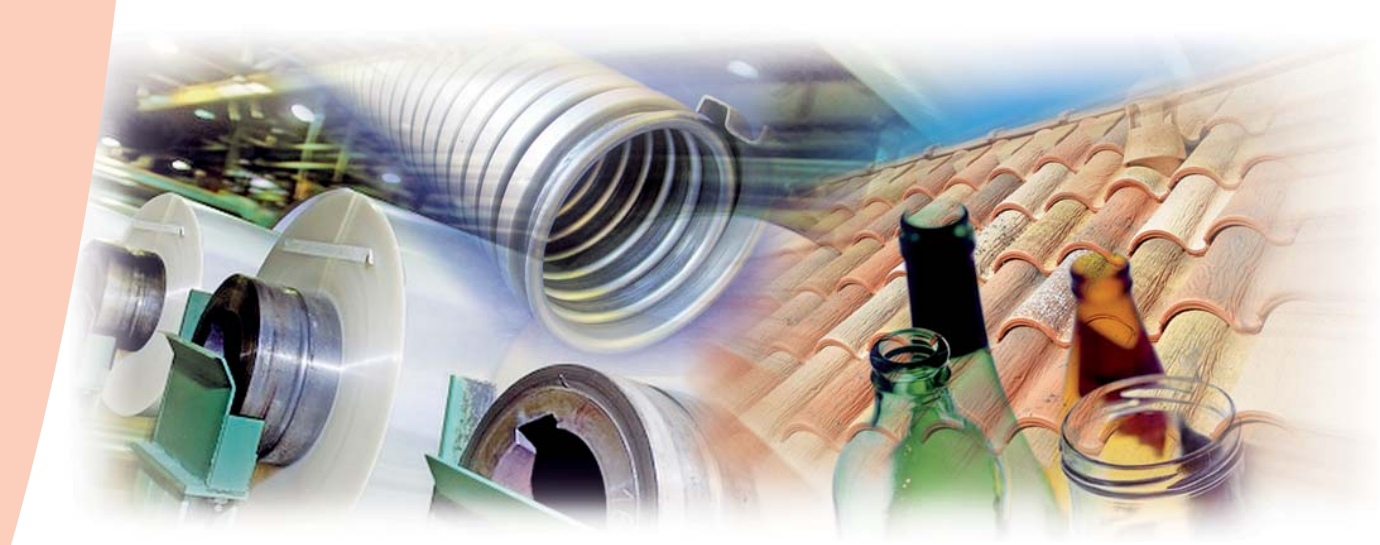
elesa®'s Product	Product's Description			
	NLGI	Dropping Point (°C)	Velocity Factor	Working Temperature Range (°C)
<b>VITA</b> <b>VITA KOSHER</b>	Excellent synthetic greases for prolonged lubrication and that has to put up with extreme temperatures and high loads in bearings and mechanisms where can be incidental contact with food. Ex.: bottle packaging, roller guides in can closing machines, feed pelleting, oven bearings, etc. Meets standard NSF-H1(H1) with Registration N°. 140329 and FDA-21-CFR.178.3570. Variant <b>elesa® VITA KOSHER</b> with the KOSHER certificate.			
	2	>260	600.000	50 to 180
<b>VITA-EXTRA-OX</b>	Excellent synthetic grease for high temperatures lubrication and with VERY HIGH LOADS and high steam concentration in bearings and mechanisms where can be incidental contact with food. Ex.: Decanters-centrifuges, bottle packaging, can closing machines, feed pelleting, etc. Meet standards NSF-H1(H1) and FDA-21-CFR.178.3570.			
	2	>260	500.000	50 to 220
<b>70-SBR</b> <b>70-SBR KOSHER</b>	Designed for systems that Works with extreme conditions of high EP, very high VELOCITIES and TEMPERATURES very high or very low. Excellent for sliding rolling bearings, bearings, kneecaps, gears, etc. Centrifuges, oven chains and freezing,... Meet standards NSF-H1(H1) with Registration N°. 140330 and FDA 21 CFR 178.3570. Variant <b>elesa® 70-SBR KOSHER</b> with KOSHER certificate.			
	2	>300	500.000	50 to 220
<b>ALBA</b>	Designed for critical points with extreme temperatures, free of waste. High PTFE content. Does not take down and does not spot, being very suitable for chains in industrial bakeries, textile industries and air painting. Meets standards chains NSF-H1(H1) and FDA-21-CFR.178.3570. Available in aerosol.			
	000	-	-	-60 to 250
<b>SILICONA T</b>	Mechanisms lubrication, especially plastic materials: rolling bearings, joints, pistons and guides, with sealant effect. Is not applicable to metallic bearings. Joints and elastomer protection. Especial for peristaltic pumps. Resistant to washed with hot water, cold water and steam, so as to other chemical agents: chloric, ammonia... Dialectical, electric contacts protection. Contains PTFE. Meets standards NSF-H1(H1) and FDA-21-CFR.178.3570.			
	2	>260	--	-55 to 160





# antigripaje pasta

elesa® Product	Product's Description				
	NLGI	Dropping Point (°C)	Welding Load 4 Ball Test (kg)	Working Temperature Range (°C)	% Solids
<b>ELECTRO-MOLY 22</b>	Bearings that work at 500°C in a continuous way. Excellent results in ceramic, glass and plastic industries. No formation of gums and resins. Meets standard MIL-L-25681 and NATO-S-1735.				
	2	>200	high	-20 to 500	50
<b>ELECTRO-MOLY 32</b>	Compatible with all kind of seals and elastomers. High lubricity. Without carbonaceous wastes at high temperatures. Together with <b>elesa® A-32</b> oil, they are an excellent lubricant in maintaining valves of liquefied gas conductions.				
	2	>300	high	-40 to 500	60
<b>ELECTRO-MOLY 44</b>	Especially designed for machinery manufacturers. Its additives avoid seizure and stiffness under extreme conditions. Avoids stick-slip in machine tools guides.				
	1	>300	high	-20 to 300	60
<b>66</b>	Copper paste resistant to high temperatures and high loads... Excellent sealing properties. Thermal and electrical conductor. It is visco-static, preventing the leakage, internal corrosions and welds. Puts up with saline environment. Screws and bearings in Steel and chemical industries where it is required long time periods of assembly / disassembly.				
	2	--	high	-40 to 1100	40
<b>ELECTRON AL-3</b>	Antiseizure paste in the assembly of threaded connections, ex.: drilling pipes in foundations and for electrical aluminum contacts, protecting them against rust and electric arc formation, lengthen their lives. Available in aerosol.				
	2	>206	high	-20 to 700	20
<b>COBRIX</b>	Assembly paste that decreases the torque, making easier the assembly and disassembly in screws. Lubricates and protects the sliding sleeves in percussion drilling pointers. Reduces metal to metal contact, reducing the operating temperature and lengthen the pieces' life. <b>elesa® COPPER</b> variant with less copper content.				
	2	210	high	-20 to 1100	--
<b>ELECTRON CU-3</b>	Metallic paste made of micronized antiseizure copper with long duration, in mechanism and threaded connections under vibrations, high temperature and corrosive atmospheric conditions, even in marine environment. Resist longer periods of disassembly. Conducting paste, avoids the electric arc's formation.				
	2	210	high	-30 to 1100	--
<b>SILICONA TEF</b>	Silicon assembly paste, with high PTFE content, special for joints and articulations, with sealing effect. Protection of joints and elastomers. Resistant to cold, hot water washed and steam, and also to other chemical agents: chloric, ammonia, acids... Dielectric, protection of electric contacts. Meets standards NSF-H1 and FDA-21-CFR.178.3570.				
	2	>260	--	--	-60 to 160



# Metalworking Fluids Board

PRODUCT	STEEL	STAINLESS STEEL	CUPPER (Cu)	ALLOYS (Cu)	ALUMINUM (Al)	ALLOYS (Al)	ZINC (Zn)	ALLOYS (Zn)	BRASS	FERROUS METAL	NON FERROUS METAL	GALVANIZED	ZAMAK Die Casting	CONCRETE	METHACRYLATE	STONE	GLASS	Vis 40°C cst
AE	●		●	●	●	●			●	●	●							85
AE - 1 + DNI	●	●	●							●	●							53,1 (20°C)
AE - ALU					●					●								30
AE - INOX / 10	●	●																650, 500, 220
AE PLUS, AE PLUS LIGERO y AE PLUS Z20	●																	1
AMP-XL y AMP	●		●	●	●	●	●	●	●	●	●	●						1,5
COAL 25-7			●	●	●	●	●	●		●	●							1,5
COAL 25-32			●	●	●	●	●	●		●	●							46
COAL 25-34			●	●	●	●	●	●		●	●							5
DAZA					●		●						●					1,1
DAZA - 3	●		●	●	●	●	●	●	●	●	●							Paste
DG - 19, DG - 19 VARIEDAD - 2	●	●	●	●	●	●	●	●	●	●	●						●	Fluid
DG - 19 PULVERIZABLE	●	●	●	●	●	●	●	●	●	●	●					●	●	5
DL - 3																●	●	28
FCD	●	●		●	●	●	●	●		●	●							15
FCD - 15	●	●		●	●	●	●	●		●	●							
FCD - 68	●		●	●	●	●	●	●	●	●	●	●	●					
MC	●	●	●	●	●	●	●	●	●	●	●	●	●					2
TB y TB - ESPECIAL	●		●	●	●	●	●	●	●	●	●			●				-
TV	●	●													●		●	-
TV - ESPECIAL	●	●	●	●	●	●	●	●	●	●	●	●					●	-
16 - CR	●	●							●								●	46
18	●	●							●								●	80
27	●	●							●								●	NLGI-1
REF. 488																●		

# Metalworking Fluids Board

	PRODUCT TYPE	MILLING	THREAD	DRILLING	BROACHING	CUTTING	REAMING	GRINDING	PUNCHING	STAMPING	DRAWING	FOLD	STRETCHING	DEMOLDING	FORGING, STAMPING	SHEET THICKNESS (mm)
AE	ACEITE		●			●			●	●	●	●	●			2,5 thickness 50 deep
AE - 1 (+ DNI)	ACEITE								●	●	●	●	●		●	4
AE - ALU	ACEITE EVAPORA								●	●	●	●				1,5
AE - INOX / 10	ACEITE EVAPORA	●	●	●					●	●	●	●	●			2,5 thickness 10 deep
AE-PLUS, AE-PLUS LIGERO y AE-PLUS-220	ACEITE								●	●	●	●	●			5 thickness 40 deep
AMP y AMP-XL	ACEITE EVAPORA					●			●	●	●	●				0,5
COAL 25-7	ACEITE		●						●	●	●	●				
COAL 25-32	ACEITE	●	●			●			●	●	●	●				0,2
COAL 25-34	ACEITE								●	●	●	●				0,5 thickness 6 deep
DAZA	ACEITE													●		
DAZA - 3	ACEITE EVAPORA									●	●	●		●		2,5
DG-19, DG-19 VARIEDAD-2 y DG-19 PULVERIZABLE	GRAFITO AGUA													●	●	
DL - 3	ACEITE EVAPORA					●										
FCD	ACEITE	●	●	●	●	●	●		●	●	●	●				
FCD - 15	ACEITE EVAPORA	●	●	●	●	●	●		●	●	●	●				0,4 mm, stainless steel
FCD - 68	ACEITE					●			●	●	●	●	●			2,5
MC	ACEITE EVAPORA															
TB	EMULSIÓN BLANCA	●	●	●	●	●	●		●	●	EMBEDDED	●				
TB - ESPECIAL	ÍDEM H2O DURAS	●	●	●	●	●	●		●	●	EMBEDDED	●				
TV	EMULSIÓN TRANSPARENTE		●			●	●	●								
TV - ESPECIAL	EMULSIÓN TRANSPARENTE		●			●	●	●								
16 - CR	ACEITE + GRAFITO													●	●	
18	ACEITE SINTÉTICO + GRAFITO													●	●	
27	GRASA + GRAFITO													●	●	
REF. 488														●	●	

# metalworking fluids

<b>elesa®'s Product</b>	<b>EMULSIFIABLE</b>	
<b>TB COOLANT</b>	Emulsifiable oil in water (coolant) for Steel machining and all kind of metals. Provides good lubrication, cooling and corrosion protection and bactericide. Concrete mold release.	
	<b>TB</b> Milky White	<b>TB - ESPECIAL</b> Milky White with more emulsion stability and higher resistant to hard water.
<b>TV ESPECIAL SYNTHETIC COOLANT</b>	Synthetic fluids, water-soluble, for machining operations with medium-low severity, ground and sharpened. Optimal rust protection and high bacteriostatic protection. They are use in aqueous solution, ratio as the type of work performed. Free of nitrites, chlorides, phosphorous, sulfur and boron. Perfect work piece visibility.	
	<b>TV - ESPECIAL</b> Transparent	

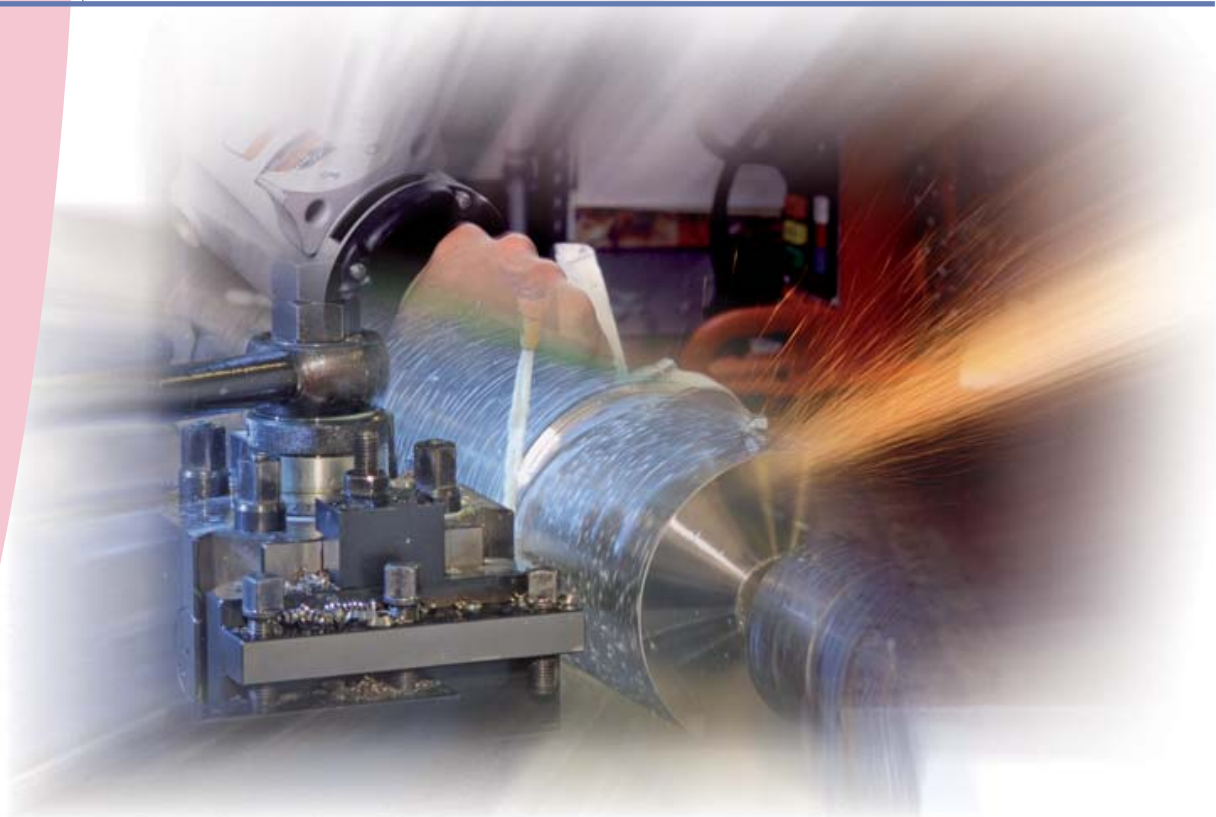


<b>elesa®'s Product</b>	<b>MACHINING OILS</b>		
	Product's Description		
	Variant	Variant	Variant
	40°C Viscosity (cSt)		40°C Viscosity (cSt)
<b>AE-INOX - 10 MACHINING OIL STAINLESS STEEL</b>	Lubricant for ferrous metal machining, especially stainless Steel. High coolant power.		
	25		
<b>FCD METALWORKING FLUID</b>	Universal Metalworking Fluid for direct use in all kind of <i>Services and Machining</i> . Ferrous metal machining: Threading, drilling, milling. Allows a perfect finish both in surface and depth. Recommended for Shapers like: <b>MATRIX, MAAG, HURTH, TOS, FELLOWSNESTOR</b> and <b>MODUL</b> .		
	<b>FCD</b>	<b>FCD - 15</b>	
	28	15	
<b>DL - 3 METALWORKING FLUID</b>	Lubricant developed for cutting hard Stone in jewelry (quartz) Good lubricating properties. High flash point.		
	--		

<b>elesa®'s Product</b>	<b>DRAWING / MACHINING OILS</b>		
	Product's Description		
	Variant	Variant	Variant
	40°C Viscosity (cSt)		40°C Viscosity (cSt)
<b>AE PURE OIL</b>	Drawing Oil, for carbon steel, mild steel, special steel, aluminum and its alloys, copper and its alloys. Superb surface finished, without pitting or scratches.		
	80		
<b>AE - PLUS PURE OIL</b>	Deep Drawing Oils. <b>elesa® AE-PLUS</b> make easier the operations of sheet's plastic deformation cooling with blow. Deep drawing, pressing, punching, drilling. Allows more précises dimensions in finishing and increases the matrix's life.		
	<b>AE - PLUS</b>	<b>AE - PLUS LIGERO</b>	<b>AE - PLUS 220</b>
	650	500	220
<b>AE - 1</b>	Deep Drawing Oil with high viscosity. With Molybdenum disulfide, it has lubricating properties, EP and coolant character. In combination with <b>elesa® DNI</b> for Stainless steel machining		
	<b>AE 1</b>		
	800		

# metalworking fluids

elesa® Product	<b>DRAWING / MACHINING OILS</b>	
	Product's Description	
	Variant	Variant
	40°C Viscosity (cSt)	40°C Viscosity (cSt)
<b>FCD 68 y 220</b> PUNCHING	Forming and stamping oils. Specials for Works with sheet profiles with thickness higher than 2.5 mm. Allows work with steel, aluminum, gold metals and their alloys. Easy cleanup with water.	
	FCD - 68 68	FCD - 220 220
<b>COAL</b>	COAL-25-7 Evaporating mineral oil for nonferrous metal, copper and aluminum alloys. Does not spot the piece. COAL 25-34. Special Oil for machining and forming of ferrous and nonferrous metals. Excellent for gear cutting, threading of castings or stamping, turning, milling, planning, etc.	
	COAL 25 -7 (Nonferrous alloys) 1,5	COAL 25 - 34 46
<b>AMP</b> EVANESCENCE OIL	Evaporative mineral Oils for machining, punching, drawing, folding and stamping of ferrous and nonferrous sheets, like cupper alloys, aluminum alloys, galvanized, with thickness up to 0,4 mm. Excellent wetting properties that assures good film on metal surface and adequate cooling. Protects against corrosion.	
	AMP 1,32	AMP - XL 0,9
<b>DAZA, 3</b>	Evaporable Oil for stamping. Excellent properties antiwear and protection against corrosion. Pure Oil for stamping, punching and profiling metal sheets. Thickness up to 2,5 mm.	
	DAZA 1 5,0	DAZA 3 1,13
<b>AE - ALU</b>	Lubricating and cooling Fluid for cutting aluminum profiles and aluminum drawing. Total evaporation at the work end and no residue formation. <b>elesa® AE-ALU REFORZADO</b> has better E.P features (*20° viscosity).	
	AE - ALU 53,1	AE - ALU REFORZADO --
<b>MC</b>	Oil for rubber joint built in galvanized iron caps. Lubricates the joint and extends its life.	
		MC --





# metalworking fluids

elesa®'s Product	OIL FOR DEMOLDING OF FORGE (ZAMAK, GLASS, STONE...)		
	Product's Description		
	Variant	Variant	..
	40°C Viscosity (cSt)		40°C Viscosity (cSt)
<b>16 - CR</b>	Lubricant fluid with graphite, for demolding. Colloidal graphite suspension with high stability. Allows work with good results and no fumes. Designed for glass demolding, brass stamping and hot forging mold release. Cover the pan with a protective, creamy and moisturizer layer.		
	16 - CR 46		
<b>27</b>	High stable graphite suspension that allows demolding in different materials: glass, forge, brass and Steel hot stamping. Gives cleaner surfaces, more regular and without orange peel.		
	27 Fluid Grease		
<b>DG - 19</b>	elesa® DG-19 – High stable graphite suspension, is a lubricant for forge demolding and hot aluminum forging that does not produce fumes... elesa® DG-19- Variedad-2 is applicable to the stainless steel forging. Promotes release of part-die, avoids die wear, does not produce fumes and has an easy application.		
	DG - 19 & DG - 19 Variety 2		
<b>18</b>	LIQUID		
	PASTE		
	Synthetic lubricant fluids of high temperature that don't leave residues contain colloidal extra pure graphite, with a wide spectrum of application. Their main applications are in forging and stamping, as a elements' lubricant at high temperatures and very high loads, bearings, chains, bolts, Clinker oven rings, etc. Meet standard: en MIL-G-17745 (NORB).		
<b>DAZA</b>	18 F	18 B	18 BB
	>70*	>320	Fluid Paste
	Zamak Demolding Fluid. Protects against corrosion and it is compatible with paintings. Demolding and lubricant in the aluminum and zamak injection at high pressure.		
<b>Ref. 488</b>	DAZA		
	5*		
	Direct use lubricant. Excellent for synthetic stone demolding. Rubber molds. Ref. 488-D for spray application.		
<b>FSA</b>	Ref. 488		
	..		
	Demolding in plastic roll.. Anti-projections without welding. Aerosol available. elesa® FSA PULVERIZABLE is a variant of elesa® FSA-100 that makes easier the spray. Meets standards FDA 21CFR 178.35 70 and NSF- H1(H1).		
FSA			



# antifreeze

## ANTIFREEZE

<i>elesa</i> ®'s Product	Product's Description																									
<b>ANTICONGELANTE PURO</b> <b>ANTICONGELANTE 30% (-18°C)</b>	Antifreeze for automotive and industrial cooling systems. Protects against corrosion to different metals that are part from the circuit. Provides low freezing point and high boiling point. Anticongelante 30% and 50% are products for direct use. Meet standards MB-BL-II and Ford Glassware.																									
<b>ANTICONGELANTE 50% (-39°C)</b>	<table border="1"> <thead> <tr> <th><i>elesa</i>® ANTICONGELANTE PURE</th> <th>WATER (%)</th> <th>FREEZING POINT (°C)</th> <th>BOILING POINT ATM. PRESSURE (°C)</th> <th>BOILING POINT PRESSURE 103k Pa (°C)</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>80</td> <td>-9</td> <td>102</td> <td>121</td> </tr> <tr> <td>33</td> <td>67</td> <td>-18</td> <td>104</td> <td>125</td> </tr> <tr> <td>40</td> <td>60</td> <td>-26</td> <td>106</td> <td>127</td> </tr> <tr> <td>50</td> <td>50</td> <td>-39</td> <td>108</td> <td>129</td> </tr> </tbody> </table>	<i>elesa</i> ® ANTICONGELANTE PURE	WATER (%)	FREEZING POINT (°C)	BOILING POINT ATM. PRESSURE (°C)	BOILING POINT PRESSURE 103k Pa (°C)	20	80	-9	102	121	33	67	-18	104	125	40	60	-26	106	127	50	50	-39	108	129
<i>elesa</i> ® ANTICONGELANTE PURE	WATER (%)	FREEZING POINT (°C)	BOILING POINT ATM. PRESSURE (°C)	BOILING POINT PRESSURE 103k Pa (°C)																						
20	80	-9	102	121																						
33	67	-18	104	125																						
40	60	-26	106	127																						
50	50	-39	108	129																						
<b>ANTICONGELANTE H1</b>	<i>elesa</i> ® ANTICONGELANTE-H1 is U.S.P. grade, making it suitable for food industry when can be incidental contact with food. Meet standards NSF-H1 y FDA-21-CFR.178.3570.																									
<b>ANTICONGELANTE H2</b>	<i>elesa</i> ® ANTICONGELANTE-H2 is suitable for use in food industry where cannot be any contact with food. NSF-H2.																									
<b>ANTICONGELANTE ORGÁNICO 30%</b> <b>ANTICONGELANTE ORGÁNICO 50%</b>	Antifreeze specially formulated to cover the hardest requirements of the cooling systems in actual vehicles and static engines. Suitable for all kind of materials, specially aluminum and alloys. Excellent corrosion protection. Protects the cooling circuit during long periods of time .In any kind of vehicles: de cars, buses, trucks, public work's machinery, agricultural... Quality level for the 50% antifreeze: VW TL 774D (G12), FORD WSS-M97B44D and GM 6277M.																									
	<table border="1"> <thead> <tr> <th><i>elesa</i>® ANTICONGELANTE ORGÁNICO</th> <th>WATER (%)</th> <th>FREEZING POINT (°C)</th> <th>BOILING POINT PRESSURE ATM. (°C)</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>70</td> <td>-18</td> <td>130</td> </tr> <tr> <td>50</td> <td>50</td> <td>-34</td> <td>145</td> </tr> </tbody> </table>	<i>elesa</i> ® ANTICONGELANTE ORGÁNICO	WATER (%)	FREEZING POINT (°C)	BOILING POINT PRESSURE ATM. (°C)	30	70	-18	130	50	50	-34	145													
<i>elesa</i> ® ANTICONGELANTE ORGÁNICO	WATER (%)	FREEZING POINT (°C)	BOILING POINT PRESSURE ATM. (°C)																							
30	70	-18	130																							
50	50	-34	145																							



# industrial cleaning and maintenance

## DEGREASERS AND CLEANERS

elesa®'s Product		General Features and Application
WATER-SOLUBLE	<b>DQI - 1</b> AQUEOUS DEGREASER	Industrial degreaser soluble in water. High penetrating and cleaning power. Designed for industrial cleaning of metallic surfaces in the degreaser work prior painting or passivation treatments and for cleaning in automotive industry. Protects temporarily against corrosion. Designed for cleaning of more resistant products like graffiti, adhesives or dry residues too embedded. BIODEGRADABLE.
	<b>DQI - 1 H2</b> UNIVERSAL DEGREASER	Universal Degreaser, high cleaning power and detergency. Security level NSF-H2(H2). Designed to meet industrial cleaning equipment and floors at food industry.
	<b>DQI - 11S - H2</b> DEGREASER	Degreasing gel for hands.
	<b>Hand-cleaning paste BAXOL</b>	Powerful degreaser in paste form, very efficiency for cleaning hands, specifically prepared for hands that work in hard conditions and in contact with greases, inks, charcoal and mud: capable of removing heavy dirt with minimum consumption.
	<b>PRESTIGE</b> DIELECTRIC CLEANER	Degreaser with high dielectric strength, high solvent power, compatible with Metals and the majority of plastic materials. High effective in Industry, Electricity, Automotive, DIY, Home and Gardening. Rapid evaporation. Zero waste.
	<b>REF. 393</b> ENERGETIC CLEANER	Biodegradable assertive Solvent-cleaner. Very high solvent power. Low toxicity, compatible with metals (check with plastics), high flash point. Eliminates dry and resistant waste. Excellent for industrial equipment, automotive and cleaning at Graphic arts industries, Textile, Shoes, Toys, etc.
	<b>REF. 538</b> ENERGETIC CLEANER	Glue and general waste cleaner. High cleaning power, high evaporation rate, does not attack almost any plastic, maybe can dry rubber. Dielectric, Flammable. Good for glue cleaning in Wood edging and shoe industry, pieces cleaning and machinery and cleaning of electrical circuits without tension.
	<b>DD - 6</b> ORGANIC DEGREASER	Degreaser and cleaner with high efficiency. Excellent in mechanical industry, glue cleaning at shoes and wood industry. High penetrability.
	<b>DD - 8 / DD - 9</b> ORGANIC DEGREASER	Industrial Solvents, dielectric with high flash point. DD-9 is excellent for dry waste. Applicable in Industry, Electricity, Automotive, Watersports.
	<b>DNI</b> <b>DNI - 10</b> ORGANIC DEGREASER	Industrial Solvents those are not flammable. Compatible with all kind of mineral oils and a wide range of synthetic oils. Specially designed for the metal degreasing: ferrous, copper, zinc, lead, tin, silver and even aluminum and its alloys.  <b>elesa® DNI-10</b> is a variant of <b>elesa® DNI</b> , with higher solvent and descale power, without modify the other features, including dielectric. Metal degreaser. Degreased in both liquid phase and vapor
	<b>DUO, DUO - L</b> DIELECTRIC CLEANER	Dielectric Degreaser with high Flash Point., high Dielectric Strength and high solvent power, compatible with Metals and the majority of Plastic Materials. Odorless. High efficiency in Industry, Electricity, Automotive, DIY, Home and Gardening.
	<b>DHAPI</b> NONTOXIC ORGANIC CLEANER	Dielectric organic cleaner with high flash point for food industry. High cleaning power. Odorless. FDA-21-CFR.178.3570 and NSF-H1 with Registration N°. 140332.



# industrial cleaning and maintenance

## PENETRATING OILS, CLEANERS AND PROTECTIVE

<i>elesa</i> ®'s Product	Product's Description
<b>DQI - PROTEC</b> PROTECTIVE AND ANTIRUST	Excellent antirust protective that DOES NOT leave an oily film on the surface that has to be treated. Avoids unnecessary deoxidation works or rejection of parts. Avoids cleaning of parts, like happen with the oily protective.
<b>NR</b> PROTECTIVE AND ANTIRUST	Moisture displacing lubricant at the start of electrical motors, with excellent results in saline mist chamber and humidity chamber. High penetrability that makes it good penetrating oil. Essential in corrosive environment, like salting or naval. Protection of molds and finished pieces. Dielectric. Meets standards NSF-H2 (H2) and MIL-C-81309E. (520 c.c. y 210 c.c.). Available in aerosol.
<b>NRX 1</b> PENETRATING OIL AND PROTECTIVE AND ANTIRUST	Penetrating Oil with high penetrability. Moisture displacing and antirust protector. Has very good compatibility with paints and joints.
<b>NR - ATOX</b> NONTOXIC PROTECTIVE PENETRATING OIL	Wet film protective fluid, antirust and penetrating oil, for food industry. Lubricates and contain PTFE. Dielectric. Working temperature range (-30 to 50°C). FDA-21-CFR.178.3570 and NSF-H1 with Registration N°. 140328.
<b>SUPERSTAR</b> HYDROPHOBIC PENETRATING OIL	Penetrating Oil with very good penetrability... Anticorrosive moisture displacing, developed for ferrous metal protection, finished pieces, machinery, tools, electrical equipment, etc. Facilitates the dismantling Works. Very good compatibility with paints and joints. Hydrophobic and dielectric.
<b>ANTIPROYECCIONES</b> - ACU  <b>ANTIPROYECCIONES</b>	<i>elesa</i> ® ANTIPROYECCIONES-ACU is a water-based product. Free of silicones. No flammable. Facilitates the removal of projections during long period of time. <i>elesa</i> ® ANTIPROYECCIONES is organic-based.



# green industrial maintenance

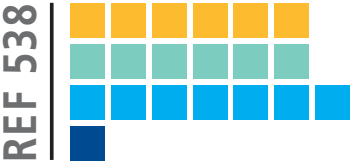
BIODEGRADABLES		
Denomination	Application	Standars meet
<b>11</b>	Synthetic grease formulated for High Revolutions and very low Temperatures.	NSF - H2
<b>11 SB</b>	<b>elesa® 11</b> Without Molybdenum Disulfide.	NSF - H2
<b>REF. 393</b>	Energetic Cleaner High Performance.	NSF - H2
<b>46 AS - SB</b>	Synthetic Oil for Chains with High Temperatures.	NSF - H2
<b>BIO LUB X</b>	General Lubrication Oil.	NSF - H2
<b>BIOHIDRAULIC</b>	It has been developed for hydraulic systems and hydrostatic circuits. Its good antiwear, lubricity and BIODEGRADABILITY > 80% features, make it able for machinery general lubrication that works outside and can have spillage risks. Its low pour point facilitates winter work. Meets <b>OECD-301B</b> .	--
<b>OLIV-68</b>	General lubrication Oil con vegetal base. Meets <b>NSF-H1</b> .	--
<b>OLIV-68- HIDRAULIC</b>	Hydraulic vegetal base oil. Meets <b>NSF-H1</b> .	
<b>DQI - 1</b>	Universal aqueous degreaser.	
<b>BIORAIL-EP</b>	Grease for sides of railway wheels and needle changes. It supports High loads, Dust, Water, UV light and a wage temperature range. It protects against wear and doesn't contaminate environment. Available in <b>NLGI 2</b> and <b>00-000</b> .	--
<b>BIOGRASS-EP</b>	Biodegradable general lubrication grease. Wage temperature range. It supports works with water and has a good antirust protection.	--
<b>BIOALFA</b>	Biodegradable general lubrication grease. Wage application field in public Works, agriculture, and renewal energies. Fluid Consistency. Lubrication in needle changes.	--
<b>21S - SB</b>	Gear synthetic lubricant. Low evaporation, no carbon residues and excellent E.P features. Very good performance in corrosive environments and high temperatures. Ideal for gear under overload, dryer drum bearings, oven chains, centralized systems...	--

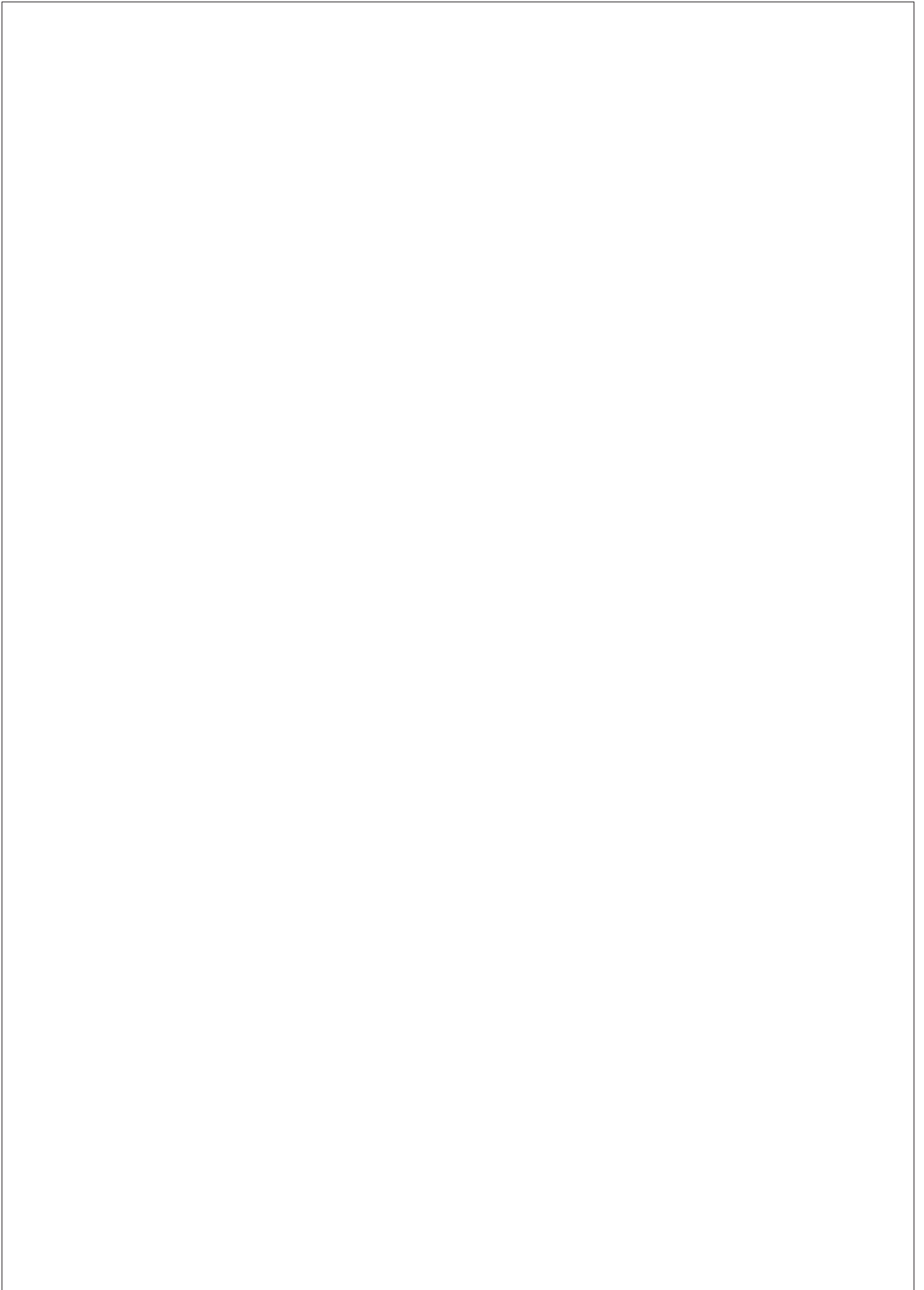
All the products in this section meet the biodegradability standard **OECD-301B**.



# Cleaner Products Board

For a proper selection of the cleaning product, see the following scheme:





# ELESA INGENIERIA

- Lubrication Studies
- Training in Maintenance and Precision Lubrication
- Lubricant's Energy Efficiency
- Laboratory
- I+D+I



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