

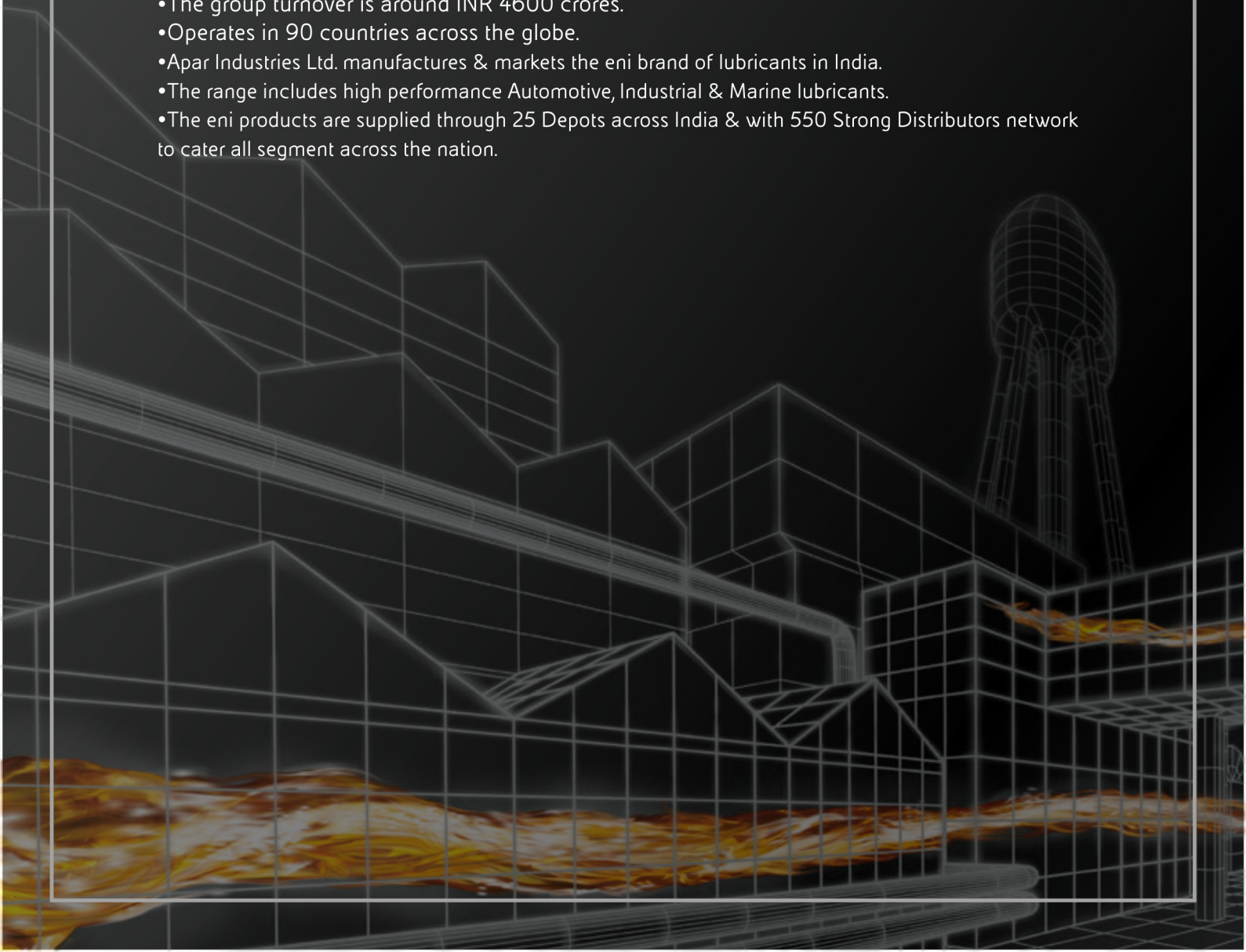
## eni

- eni is a world class integrated energy company from Italy.
- Among the Top 10 in the integrated petroleum companies in the world.
- 17th in the Global Fortune 500 listed Companies.
- Operates in more than 100 countries across the globe with staff strength of more than 73000.
- Committed to growth in Exploration, Refining & Marketing of oil and Gas.

eni brand is an acknowledged world leader in lubricants technology. Its activity covers the entire value chain from inhouse manufacture of additives and base oils to processing and blending finished lubricants. eni product line covers the entire spectrum of automotive, industrial and marine applications.

## APAR INDUSTRIES LTD.

- 2nd largest manufacturer of Power transmission lines/conductors in India, with 25% market share.
- Largest manufacturer of Transformer oils in India with 50% market share. Among the Global top 5.
- Approved by OEM for all power generators and major global utilities.
- 20% share in India of white oil, with approvals from all pharma and FMCG companies.
- The group turnover is around INR 4600 crores.
- Operates in 90 countries across the globe.
- Apar Industries Ltd. manufactures & markets the eni brand of lubricants in India.
- The range includes high performance Automotive, Industrial & Marine lubricants.
- The eni products are supplied through 25 Depots across India & with 550 Strong Distributors network to cater all segment across the nation.



# HYDRAULIC OILS

## HYDRAULIC (AW 32, 46, 68 & 100)



•IS 10522 - 1983 (Reaffirmed 1993)

•ISO VG 32, 46, 68, 100

Superior quality anti-wear hydraulic oil.

### Benefits:

- Very good oxidation stability.
- Very good anti-foam & anti-rust properties.
- High film strength which helps in minimizing friction and wear.
- Excellent wear protection.

Recommended for use in circulation systems and hydraulic circuits.

Available in pack sizes: 210 & 20 Liters.

## OSO (SO VG 32, 46 & 68)



•DIN 51524 Teil 2 HLP

•Denison HF 2

•AFNOR NF E 48603 HM

Trademark high quality oils for hydraulic systems and equipments.

### Benefits:

- Developed for all types of hydraulic systems and equipments.
- Formulated from selected paraffin base stocks treated with anti-rust, antioxidant and anti-wear additives.
- Creates a strong lubricating film which can withstand high loads.
- Recommended for use in hydraulic controls and hydraulic systems such as transport, construction and mining equipment as well as chemical and metallurgy machinery.

Available in pack sizes: 210 & 20\* Liters.\*(Available in ISO VG 68 only)

## ARNICA (SO VG 32, 46 & 68)



•DIN 51524 Teil 3 HVL

•ISO-L-HV

•AFNOR NF E 48600 HV

•DENISON HF-0

•Premium quality hydraulic oils specially developed for use in high performance hydraulic systems.

### Benefits:

- Excellent thermal, anti-oxidant and hydrolytic stability.
- Extremely high viscosity index and very low pour point for correct operations.

Recommended for hydraulic equipment subject to wide temperature variations i.e. construction & mining equipment and ceramic presses.

Available in pack sizes: 210 & 20\* Liters.\*(Available in ISO VG 46 only)

## OSO AS (ISO VG 32, 46 & 68)



•DIN 51524 Teil 2 HLP

•Denison HF 2

•AFNOR NF E 48603 HM

•OSO AS is a line of ash-less high quality hydraulic oils specially developed for use in all types of hydraulic systems and equipments.

### Benefits:

•OSO AS oils have very good antiwear properties, as illustrated by typical test results:

- \* vane and ring wear in the Vickers test around 50 mg;
- \* the grade ISO VG 46 passes the 11th stage of the FZG test.

•The oils are designed for energy transmission in plants requiring the use of a hydraulic fluid. The oils also provide adequate lubrication by creating a strong lubricant film which withstands high loads between the sliding parts of high-pressure hydraulic systems

Recommended for not only for use as hydraulic fluids but also as heavy-duty lubricants for bearings, reduction units, etc., where operating conditions call for special anti-wear characteristics

Available in pack sizes: 210 Liters

# SPINDLE OILS

## ACER SO 10 EE



ACER SO 10 EE is a special oil with very low viscosity, formulated from selected base stocks treated with antirust, antioxidant and some anti-wear additives. The AGIP ACER SO 10 EE is developed specifically as Energy Efficient lubricant for the ring frame.

### Benefits:

- ACER SO 10 EE has extremely good oxidation resistance and stability to the ageing
- Protection against wear
- Low spindle wear
- Longer component life

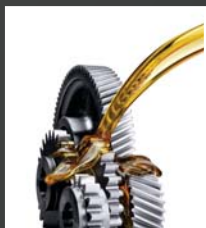
ACER SO 10 EE is recommended for the lubrication of high speed spindles of machine tools. Can be used for lubrication of sleeve type spindle bearings and for applications where there is high speed and close clearances.

Available in pack sizes: 210 Liters.



## INDUSTRIAL GEAR OILS

### BLASIA (ISO VG 68, 100, 150, 220, 320 & 460)



- DIN 51517 TEIL 3 CLP
- ISO-L-CKD
- US STEEL 224

Industrial Gear oil which meets the widest range of requirements of EP lubrication.

#### Benefits:

- Excellent high speed and crash performances.
- Outstanding low speed and high load performance.
- Satisfy the widest range of operational requirements.

Recommended for use in lubrication of all types of enclosed gears, especially where operating conditions involve heavy loads and high relative sliding velocities.

Available in pack sizes: 210 Liters.

### BLASIA XMP (ISO VG 220, 320 & 460)



- ISO-L-CKD
- ISO 12925-1 - type CKD
- ANSI/AGMA 9005-D94 (AGMA 4EP, 5EP, 6EP e 7EP)
- DIN 51517 teil 3 - tipo CLP
- FLENDER BA 7300

The AGIP BLASIA XMP series are very high performance gear oils for lubricating in extreme pressure conditions (EP) the last generation industrial gear reducers, in particular, those extremely compact and of high specific power that could have problems of micro-pitting damages.

#### Benefits:

High thermal and oxidation stability, permitting continuous use at operating temperatures as high as 100°C;

Non-corrosiveness towards materials employed for the construction of machinery and especially those used for gaskets and seals, as well as metals such as steel, cast iron, copper and bronze

AGIP BLASIA XMP oils have very good anti-wear and EP properties as demonstrated by the following tests:

- FZG (A 8,3/90), scuffing test: pass the 12th stage;
- FZG (FVA 54) - micro pitting test, load stage > 10th;
- FAG FE 8 (DIN 51819-3), wear of rollers: 2mg;
- Timken OK load (ASTM D 2782), 70 lbs;
- 4 balls EP (ASTM D 2783), last non-seizure load: 110 kg; welding load: 280kg.

Recommended for splash or circulation lubrication of all types of enclosed gears, especially where operating conditions involve heavy loads, high speeds and high relative sliding velocities, at elevated ambient and operating temperatures in industrial and marine applications.

## HEAT TRANSFER FLUID

### ALARIA 3



Oils with excellent oxidation stability.

#### Benefits:

- Withstand thermal decomposition.
- Withstand maximum boiler outlet temperature 305 C.
- Withstand maximum boiler outlet temperature 320 C.

Recommended for use in lubricating textile & glass-making machinery, for the preparation of silk screen printing, in the ceramic industry and as process oil in the production of chemicals and rubbers.

Available in pack sizes: 210 Liters.

## QUENCHING OILS

### SIBLUM



Quenching oil formulated from select paraffin base stocks.

#### Benefits:

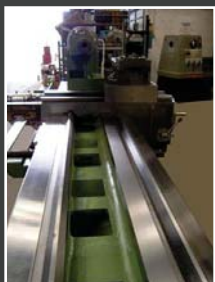
- Have a well balanced composition to ensure a high flash point.
- Excellent resistance to oxidation, carbonization and sludge formation.

Recommended to be used for hardening alloy steel components when cracking and distortion must be avoided.

Available in pack sizes: 210 Liters.

# SLIDEWAY LUBRICANTS

## EXDEIA EP (ISO VG 68, 220)



- ISO-L-G 220
- ISO-L-CKE 220
- STANIMUC G 32, 68 and 220
- DIN 51502 CGLP

AGIP EXIDIA EP oils are suitable for lubricating machine tool guides. The oils are paraffin-based with special greasing, anti-rust and anti-sticking additives (EP).

### Benefits:

- AGIP EXIDIA oils lubricate perfectly the guide-saddle connection of machine tools and prevent sticking and vibration, which influence the quality of finish of the machined item and the life of the tool
- The additives contained in the product modify the static and dynamic friction coefficient values in order to avoid "stick-slip" phenomena and thereby ensuring a regular action of the machines and compliance with the requested tolerances
- AGIP EXIDIA oils posses high load resistance characteristics

Recommended for for the lubrication of guides, even with high loads, with circulation and total loss lubrication systems. AGIP EXIDIA 68 are also used as hydraulic fluids in those machines, especially grinding machines, in which a single oil is used for the lubrication of the guides and for the hydraulic drive. AGIP EXDIA 220 may also be used for the lubrication of gears in those cases in which an oil with "antistick-slip" characteristics is expressly required, such as, for example, in the case of worm screws

# DIESEL ENGINE OILS

## I-SIGMA TOP



- SAE 10W-40
  - ACEA E4, E5, E7, B4
  - MB 228.5 + 229.1
  - MAN M 3277, MTU TYP 3 LEVEL, VW 505.00 LEVEL
- Modern High performance fuel efficiency engine oil.

### Benefits:

- The SAE 10W-40 ensures fast lubrication of the engine at low temperature.
- Increases engine life by minimizing wear.
- Prolonged oil change intervals.

Recommended for use in Daimler Chrysler, and all latest generations heavy commercial vehicles.  
Available in pack sizes: 210 L.

## I-SIGMA PERFORMANCE E7



- SAE 15W-40
  - API CI-4/CH-4/SL
  - ACEA E7, E5, E3, B3
  - MB 228.3, MAN M3275
  - VOLVO VDS-3, MTU Type 2
- Premium performance at optional operating cost.

### Benefits:

- Increases engine life by minimizing wear.
- Displays excellent soot handling properties
- Long drain interval
- Top of the line diesel engine oil exceeding the requirements of all new generation.
- Diesel engines including engines with exhaust gas recycling.

Recommended for use in Volvo, Daimler Chrysler, Tata Motors, Ashok Leyland, Eicher and all other heavy duty diesel engine applications and off highway applications.  
Available in pack sizes: 210, 55, 20, 15, 10, 5 & 1 Liters.

## I-SIGMA TURBOSTAR (SYNTHETIC TECHNOLOGY)



- SAE 15W-40
  - API CH-4/SJ
  - ACEA E5, E7
  - MB 228.3
- Engine Oils with Synthetic Technology. Long drain multi-grade oil for diesel engines Operating under severe duty.

### Benefits:

- Marketed resistance to deterioration, especially from oxidation.
- Provides excellent control on oil thickening
- Exceeds the requirements of the API CH-4 specifications.
- Keeps clean even the hottest parts of the engine such as pistons and piston rings.

Recommended for use in heavy duty turbocharged diesel engines with or without intercooler, incorporated in industrial transport vehicles, construction equipment and buses, Ideal for use in all new generation engines of Tata cummins, Caterpillar and Volvo etc.  
Available in pack sizes: 210, 55, 15, 10, 7.5, 5 & 1 Liters.

#### I-SIGMA UNIVERSAL IN



- SAE 15W-40
- API CF-4/SG
- ACEA E2, B2
- MB 228.1
- VW 505.00 MAN 271

New generation diesel engine oil exceeding the requirements of naturally aspirated and Turbo charged engines.

##### Benefits:

- Excellent control on oil thickening.
- Minimal oil consumption.

Recommended for use in Tata Motors, Ashok Leyland, IVEco, HINO, Eicher Motors and other modern diesel engines. Also recommended for earth moving equipment and genset application.

Available in pack sizes: 210, 55, 20, 15, 10, 7.5, 5 & 1 Liters.

## MARINE & GAS ENGINE OILS

AGIP has an extensive range of Marine oils which cater to requirements of both Off-shore and on-shore marine applications depending upon the type of engines, such as Medium & high speed engines. AGIP oils have the approvals of most of the major international OEMs in these segment.

#### CLADIUM S SERIES

Approved product for WARTSILA engines requiring "anti-sludge" property lubricants. Available in SAE 30 & SAE 40 viscometrics with either 40 TBN or 50 TBN.

#### CLADIUM SERIES

Approved product for MAN & SEMT PIELSTICK engines. Available in SAE 30 & SAE 40 viscometrics with either 5 TBN, 12 TBN, 14 TBN, 30 TBN, 40 TBN & 50 TBN.

#### PUNICA 570

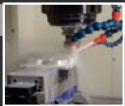
PUNICA is formulated from a high-quality base stock, additive-treated to guarantee superior cylinder lubrication of two-stroke crosshead diesel engines running on residual fuel oil. Available in SAE 50 viscometrics and with 70 TBN. Approved by M.A.N. - B & W, NSD, FINCANTIERI - Diesel Ricerche

#### GEUM C

GEUM C is a modern lubricant of API CD level, specifically designed for use in gas engines operating on natural gas with a content of H<sub>2</sub>S not superior at 0.15%. Approved by WARTSILA, for use in W25SG and W28SG engines & GUASCOR, for use in "F" engines, running on natural gas

## METALWORKING FLUIDS

#### AQUAMET IFU



AQUAMET IFU is a EP type Emulsifiable biostatic oil suitable for metal-cutting operation. Manufactured from selected base stocks and additive pack containing an emulsifier which offers a very stable emulsion even in hard water. Offers effective metal protection and system maintenance as it contains carefully selected biocides and rust inhibitors thereby providing long emulsion life

#### AQUAMET IFU 85



AQUAMET IFU 85 is a high performance environmental friendly, long life semi-synthetic versatile metalworking oil. It is manufactured from specially selected base stocks and additive packs containing an emulsifier which offers a very stable emulsion even in hard water. AQUAMET IFU 85 is a semi synthetic EP fluid for cutting and grinding operations

#### ASTER A



ASTER represent a new generation of chlorine-free complete line of metal-cutting oils available in many grades differing in viscosity and in type and quantity of additives. ASTER A series oil are chlorine free cutting oils compounded with active sulphur, fat and additives to provide longer tool life and consistent surface finish.

#### ASTER NS



ASTER NS series are in-active sulphur base heavy duty neat cutting oils with good boundary lubricating additives to meet the desired machining requirements. They are used for machining of Ferrous and Ferrous alloys

## GREASES

#### GREASE 30 LL



- NLGI 3

a superior high performance lithium Grease. Specially formulated for higher bearing protection and improved service.

##### Advantages:

Very good anti-rust and anti-corrosion property, which enables greater bearing protection. Also enables a high level of lubricity which reduces bearing failure in high operating condition and load. It's unique formulation resists prolonged mechanical stress for a longer time, resulting increased service life.

Recommended for use in all automotive wheel bearings of commercial vehicles, passenger cars and tractors.

Available in pack sizes: 180, 20, 7, 5, 3, 2, 1 kgs.

#### GREASE MU EP 2



Tenacious grease with excellent performance

##### Benefits:

Lithium based grease with presence of EP additives

Forms a tenaciously adhering lubrication

Performs exceptionally well even with heavily pulsating loads

Recommended for all plain bearings, heavily loaded bearings and roller bearings even when operating at high temperatures

Available in pack sizes: 180 & 20 kg.



# SYNTHETIC & INTERNATIONAL RANGE OF INDUSTRIAL OILS

## ARNICA PSX 46



- Synthetic Hydraulic Oil
  - DIN 51524 HVLP D
  - ISO L-HV
- Totally Synthetic (Synthetic Hydrocarbon) Hydraulic Oil.

### Benefits:

- Synthetic base and special additives permits longer oil changes intervals.
- Possesses Excellent detergent/ dispersant, antioxidant, anti-rust and anti-rust and anti-wear properties.
- Extremely high VI and low pour point permits wide range of applications.

Recommended for use in Ceramic presses. Suitable for use in the latest SACMI machines.  
Available in pack sizes: 170 kg barrels.

## BLASIA SX (ISO VG 100, 220, 320)



- Synthetic Industrial Gear Oil
- ISO 6743-6/ CKT
- ANSI-AGMA 9005 D94, AGMA No. 3S, 5S, 6S
- DIN 51517 T.3/CLP 100, 220, 320.

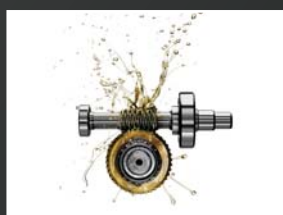
Oil formulated from a synthetic base (PAO) and special additive package.

### Benefits:

- The Base oil inherently has excellent lubricating capacity
- Very high VI
- Excellent oxidation and thermal stability
- Excellent anti-wear with FZG test of 12+stage pass

Recommended for lubrication of bearings, marine separators, gears operating at high temperatures (e.g. glass forming machines, steel strip mills, furnaces, ceramic, paper machinery). Suitable for high temperatures up to 120 degree C, with peaks in the hottest points up to 200 degree C.

## BLASIA S (ISO VG 150-320)



- Synthetic Industrial Gear Oil
- ISO-L-CKD
- ANSI-AGMA 9005 D94, AGMA No. 4S, 5S, 6S
- DIN 51502

Oil formulated from a synthetic base (POLYGLYCON) and special additive package.

### Benefits:

- The Base oil inherently has excellent lubricating capacity Very high VI
- Special additive package to avoid the formation of sludge even if a small part of the oil oxidizes owing to extreme working condition.

Recommended for lubrication of bearings of calenders operating at high temperatures (glass forming machines, steel strip mills, furnaces, ceramic, paper machinery). Suitable for high temperatures up to 120 degree C, with peaks in the hottest points up to 200 degree C.

## BETULA S - (ISO VG 68)



- Synthetic Refrigeration Compressor Oil
- DIN 51503 KC
- DIN 51503 KA
- IRE
- SABROE

### Benefits:

- High chemical stability ensures oil does not react with refrigerant.
- Low pour point and floc point.
- High dielectric strength
- Very good lubricating properties

Recommended for lubrication of refrigeration compressors (reciprocating, rotary-screw, vane).

## DICREA SX (ISO VG 46, 68)



Synthetic Air Compressor oils.

Meets the following Specifications:

- ISO-L-DAB
- ISO-L-DAH
- DIN 51506 VDL

DICREA SX lubricants are synthetic oils with a Polyalphaolefin (PAO) base treated with antioxidant, antirust and antiwear additives. They are specifically designed for the lubrication of air compressors

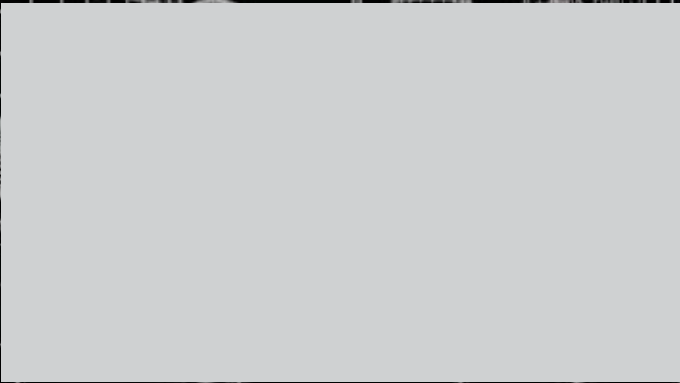
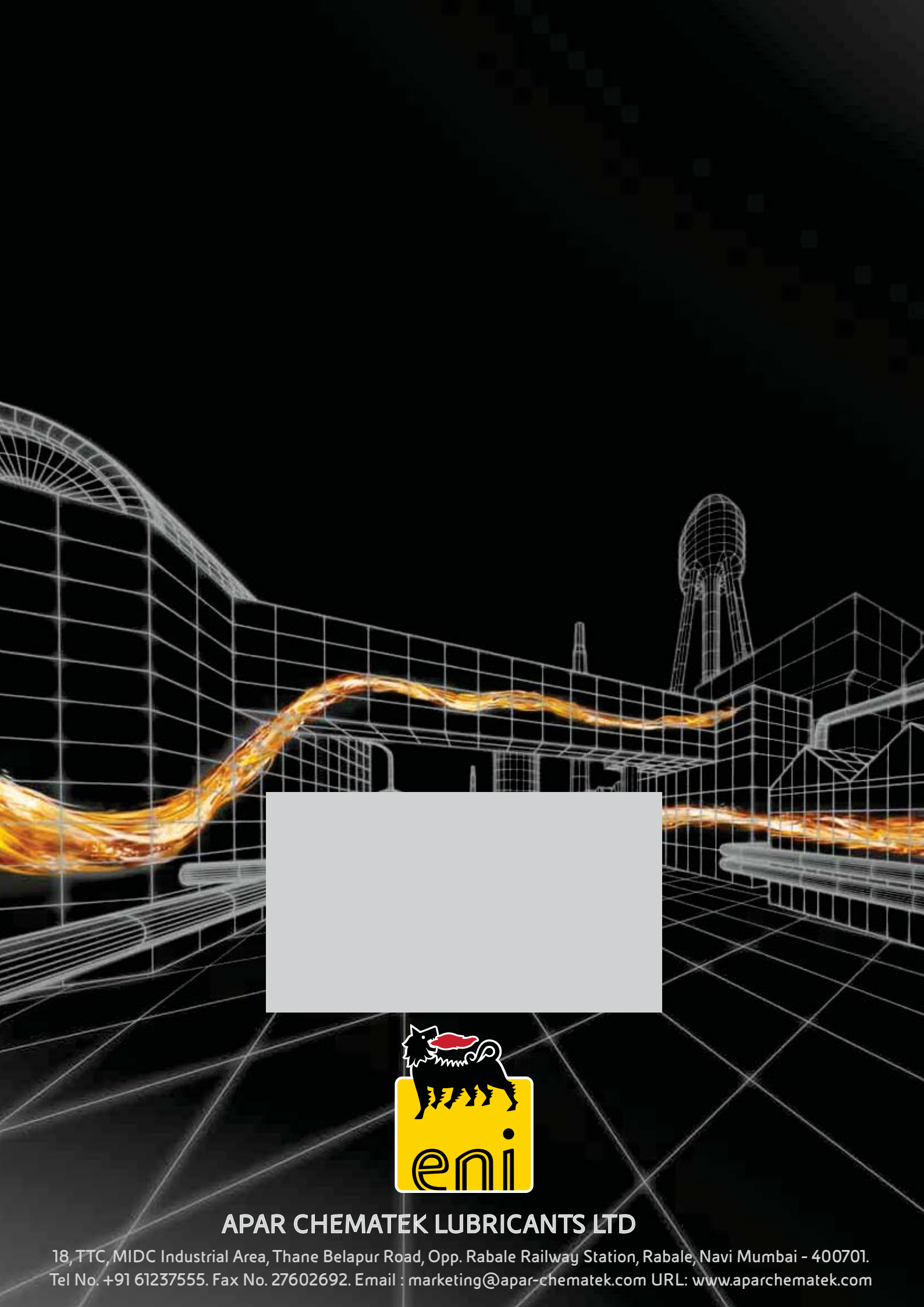
## ARUM HT



High Temperature Chain Lubricant.

ARUM HT 220 is a superior quality lubricant formulated from special ester-type synthetic bases which leave no deposits at high temperatures. It is additive-treated to impart antiwear properties and exceptional oxidation resistance. AGIP ARUM HT 220 is expressly recommended for the lubrication of chains, bearings and gears operating at high temperatures. AGIP ARUM HT 220 can be applied by automatic sprays or drip oilers. It can also be brushed on by hand.

AGIP has an extensive range of lubricants and greases in its International portfolio and for any specific application recommendation, please contact the Industrial Sales representative for the same.



## APAR CHEMATEK LUBRICANTS LTD

18, TTC, MIDC Industrial Area, Thane Belapur Road, Opp. Rabale Railway Station, Rabale, Navi Mumbai - 400701.  
Tel No. +91 61237555. Fax No. 27602692. Email : [marketing@apar-chematek.com](mailto:marketing@apar-chematek.com) URL: [www.aparchematek.com](http://www.aparchematek.com)