



LUBRICANTS SPECIALIST

## PRODUCT CATALOGUE

AUTOMOTIVE . MARINE . INDUSTRIAL . COMMERCIAL



AUTOMOTIVE . MARINE . INDUSTRIAL . COMMERCIAL

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

## INTRODUCTION

Thanks to the visionary leadership, pro-business government, suitability as a global hub for multinational firms, connectivity, logistics infrastructure, trading ease, manufacturing facilities and pre-eminence in information and communications technology, UAE is playing a pivotal role and a major attraction for businesses worldwide. Samic Lubricants brand was launched in 2020 to tap the enormous business potential in the Middle-East, European, Asian and African market. Since then the company has grown from strength to strength and has established itself as an organization focused on quality, integrity & commitment. The multi-cultural background & experience ensures that Samic Lubricants is managed and operated with highest quality and management standards. In this highly competitive market, we strive to be different by providing products and services which are unique that differentiate us from our competitors. We consider our clients as business partners and strongly believe that both should grow together. We believe in continual improvement so that we stay ahead of the competition and deliver quality and value to the customer.

## COMPANY PROFILE:

Dura Tech Gen. Trd. LLC was formed as a marketing firm engaged in marketing Samic Lubricants and Greases. The products are manufactured at the company's flagship blending plant, BEI Lubricants Ind LLC. The blending plant has a state of the art facility for blending and filling of Lubricants & Greases. The installed capacity of blending and filling is more than 40,000 MT of Lubricants, 16,000 MT of Greases and 6,000 MT of Viscosity Improvers per annum. It has one of the best R&D and testing lab in the region for Lubricants as well as Greases which helps to innovate and ensure that the quality standards meet the international testing requirement. An indicator of the rigorous emphasis & commitment to quality is that the facility is ISO 9001-2015 certified. Moreover, our Quality Assurance Laboratory is pursuing ISO 17025 accreditation.

## TECHNOLOGY

The blending plant has a comprehensive range of Lubricants blended from the finest base stocks procured from world class Exxon Mobil, Korean and European refineries & technologically advanced and superior additives procured from industry giants Afton, Chevron, Infinium and Lubrizol. It also carries out third party blending and filling of reputed brands who export these products from our plant to various countries. Samic lubricants meet the specifications of major OEMs & highest standards of API, MIL, European and Japanese manufacturers, clearly indicates our commitment to adhere to latest technological developments in the industry.

## MISSION STATEMENT

Samic Lubricants aims to be a technically sound & professionally organized Lubricants Company offering high quality, moderately priced, technologically advanced Lubricants comprising of virgin base stock and high quality additives & high quality Greases. Our goal is to become a recognized brand - Samic Lubricants, capitalizing on the integrity, quality & services offered to our esteemed customers. We will meet our challenging goals, by engaging talent that have urge and desire to perform exceedingly.

We have continued to invest in human resources as we recognize that they are the drivers of innovation and change that this organization represents. Our employees represent the best talent and experience in the industry and they along with our progressive management strive hard each day to deliver better products and services to our customers.

We hope you would find this product catalog useful and together we can strive to reach greater heights and achieve mutually beneficial goals in the Lubricant market and beyond.

**SAMIC** brand name stands for **SPECIALIST IN AUTOMOTIVE, MARINE, INDUSTRIAL & COMMERCIAL**.



## SAMIC EXCEL SUPREME SP series

SAMIC EXCEL SUPREME SP series are advanced technology engine oils blended in high performance fully synthetic (PAO – polyalphaolefin) basestocks fortified with precisely balanced additive system, specifically to help deliver high level of performance and outstanding protection during long service intervals.

It is suitable for the latest downsized engines equipped with stop & start technologies and hybrid engines requiring an API SP specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines. It provides maximum protection in the latest engine designs operating under severe conditions and protects against the potential for pre-ignition (LSPI) in these engines, including high-performance turbocharged gasoline direct injection (TGD) and non-TGD designs, supercharged gasoline and certain diesel multi-valve fuel injected systems.

## SAMIC EXCEL JADE XFE SN Plus series

SAMIC EXCEL JADE XFE SN Plus series are advanced technology engine oils blended in high performance fully synthetic (PAO – polyalphaolefin) basestocks fortified with precisely balanced additive system, specifically to help deliver high level of performance and outstanding protection during long service intervals. It is suitable for the latest downsized engines equipped with stop & start technologies and hybrid engines requiring an API SN+ specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines. It provides maximum protection in engines operating under severe conditions, including high-performance turbocharged (including latest TGD), supercharged gasoline and certain diesel multi-valve fuel injected systems.

- API SN Plus, SN, SM, SL, SJ
- General Motors dexos1 Gen2
- ILSCAC GF-5, HONDA, TOYOTA, MITSUBISHI
- Ford WSS-M2C947-A/B1



## SAMIC EXCEL JADE FE SN series

SAMIC EXCEL JADE FE SN series is a range of advanced technology engine oils blended in high-performance fully synthetic (PAO polyalphaolefin) base stocks fortified with precisely balanced additive system, specifically formulated to help deliver high level of performance and outstanding protection during long service intervals. It is suitable for the latest downsized engines equipped with stop & start technologies and hybrid engines requiring an API SN+ specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines. It provides maximum protection in engines operating under severe conditions, including high-performance turbocharged (including latest TGD), supercharged gasoline and certain diesel multi-valve fuel injected systems.

- API SN Plus, SN, SM, SL, SJ
- General Motors dexos1 Gen2
- ILSCAC GF-5, HONDA, TOYOTA, MITSUBISHI
- ACEA A1/B1
- Ford WSS-M2C947-A/B1
- General Motors dexos1



## SAMIC EXCEL JADE SN series

SAMIC EXCEL JADE SN series is formulated with fully synthetic (PAO – polyalphaolefin) base stocks and advanced technology additive system to provide extra high level of engine protection and performance. It is suitable for higher mileage gasoline and diesel powered modern automobiles requiring an API SN specification, where very high viscosity index oils are preferred to provide longer oil drain intervals & fuel efficiency in modern engines. It provides maximum protection in engines operating under severe conditions, including high-performance turbocharged, supercharged gasoline and certain diesel multi-valve fuel injected systems.

- API SN, SM, SL, SJ, CF
- ACEA A3/B3, A3/B4
- VW 502.01/505.00
- MB 229.3/229.5
- Porsche A40
- BMW Long Life-01
- Renault RN 0700/0710



## SAMIC EXCEL IVORY SM series

SAMIC EXCEL IVORY SM/CF series is designed with fully synthetic base stocks and advanced technology additive system to provide extra high level of engine protection and performance. It is suitable for higher mileage gasoline and diesel powered

modern automobiles requiring an API SM/CF specification, where very high viscosity index oils are preferred to provide much longer oil drain intervals in modern engines. It provides maximum protection in engines operating under severe conditions, including high-performance turbocharged, supercharged gasoline and certain diesel multi-valve fuel injected systems.

- API SM, SL, SL/CF
- ACEA A3/B3, A3/B4
- BMW Long life-01
- MB 229.3/229.5
- Porsche A40
- VW 502.00/505.00

### SAMIC VITAL JADE SN series

SAMIC VITAL JADE SN series is formulated with fully synthetic base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline and diesel fueled automobiles and light duty trucks requiring an API SN specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines. It provides maximum protection in engines operating under severe conditions, including high performance turbocharged, supercharged gasoline and certain diesel multi-valve fuel injected systems.



### SAMIC VITAL JADE C3 SN series

SAMIC VITAL JADE C3 SN series are fully synthetic advanced performance engine oils blended in high performance synthetic basestocks fortified with advanced technology additive system, specifically formulated to provide exceptional cleaning power, wear protection and overall performance. It helps prolong the life and maintain the efficiency of Car Emission Reduction Systems in both diesel and gasoline powered automobile engines, with recent multi-valve engines equipped with turbochargers and direct injection fuel systems. Low content in Sulphated Ash, Phosphorus and Sulphur reduces particulate build up in Diesel Particulate Filters (DPF's) and avoids poisoning of Gasoline Catalytic Converters (CAT's).



### SAMIC VITAL JADE C2 SN series

SAMIC VITAL JADE C2 SN series are fully synthetic advanced performance engine oils blended in high performance synthetic basestocks fortified with advanced technology additive system, specifically formulated to provide exceptional cleaning power, wear protection and overall performance. It helps prolong the life and maintain the efficiency of exhaust gas after treatment systems in both diesel and gasoline powered automobile engines, with recent multi-valve engines equipped with turbochargers and direct injection fuel systems. Mid SAPS (Sulphated Ash, Phosphorus and Sulphur) reduces particulate build up in Diesel Particulate Filters (DPF's) and avoids poisoning of Gasoline Catalytic Converters (CAT's).



### SAMIC VITAL JADE FE SN series

SAMIC VITAL JADE FE SN series are advanced technology engine oils blended in high performance fully synthetic base stocks fortified with balanced additive system, specifically formulated to help deliver very high level of performance and outstanding protection during long service intervals, to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline and diesel fueled automobiles and light duty trucks requiring an API SN specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines. It provides maximum protection in engines operating under severe conditions, including high performance turbocharged, supercharged gasoline and certain diesel multi-valve fuel injected systems.



### SAMIC VITAL IVORY SM series

SAMIC VITAL IVORY SM series is designed with fully synthetic base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline and diesel fueled automobiles and light duty trucks requiring an API SM specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines. It provides maximum protection in engines operating under severe conditions, including high performance turbocharged, supercharged gasoline and certain diesel multi-valve fuel injected systems.



### SAMIC VITAL TOPAZ SL series

SAMIC VITAL TOPAZ SL series are designed with fully synthetic base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline and diesel fueled automobiles and light duty trucks requiring an API SL specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.



### SAMIC MARVEL JADE SN series

SAMIC MARVEL JADE SN series is designed with synthetic blend base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline fueled automobiles and light duty trucks requiring an API SN specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.

- API SN, SM, SL, SJ, CF
- MB 229.1
- ACEA A3/B3, A3/B4-08
- Renault RN0700



### SAMIC MARVEL JADE 10W-30 FE SN

SAMIC MARVEL JADE FE SN is advanced technology engine oil blended in high performance synthetic blend precisely balanced additive system, specifically formulated to help deliver basestocks fortified with high level of performance and outstanding protection during long service intervals, to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline and diesel fueled automobiles and light duty trucks requiring an API SN specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines. It provides maximum protection in engines operating under severe conditions, including high-performance turbocharged, supercharged gasoline and certain diesel multi-valve fuel charged, supercharged gasoline and certain diesel multi-valve fuel injected systems.



### SAMIC MARVEL IVORY SM series

SAMIC MARVEL IVORY SM series are designed with synthetic blend base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline fueled automobiles and light duty trucks requiring an API SM specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.

- API SM, SL, SJ, CF
- Ford WSS-M2C947-A
- ILSAC GF-5
- General Motors dexos1 • ACEA A1/B1, A5/B5



### SAMIC MARVEL TOPAZ SL series

SAMIC MARVEL TOPAZ SL series are designed with semi-synthetic base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline fueled automobiles and light duty trucks requiring an API SL specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.

- API SL, SJ, CF • MB 229.1
- ACEA A3/B4 • VW 505 00



### SAMIC MARVEL CORAL SJ series

SAMIC MARVEL CORAL SJ series are designed with semi-synthetic base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline fueled automobiles and light duty trucks requiring an API SJ/CF specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.

- API SJ, CF • MB 229.1
- VW 505 00 • ACEA A3/B3



### SAMIC MARVEL AMBER SF/CD series

SAMIC MARVELZZZ AMBER SF/CD series are formulated with premium quality base stocks and balanced additive system to provide superior level of engine protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise. This product meet meets the requirements of most old and newer model cars and is suitable for standard services.

- API SF, CD
- ACEA A2/B2





### SAMIC OPTIMAL JADE SN series

SAMIC OPTIMAL JADE SN series are designed with synthetic blend base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline fueled automobiles and light duty trucks requiring an API SN specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.

### SAMIC OPTIMAL TOPAZ 15W-40 SL

Samic Optimal Topaz	Test Method	Units	15W-40	15W-50
Density @ 15 °C	ASTM D 4052	gm/cc	0.878	0.865
Viscosity @ 100 °C	ASTM D 445	cSt	14.30	19.66
Viscosity @ 40 °C	ASTM D 445	cSt	100	154.6
Viscosity Index	ASTM D 2270	-	147	147
Pour Point	ASTM D 97	°C	-33	-36
Flash Point (COC)	ASTM D 92	°C	230	235
Total Base Number	ASTM D 2896	mg KOH/g	8.2	8.2
Phosphorous	ASTM D 4951	% wt	0.1	0.1
CCS Viscosity	ASTM D 5293	cP	5600 @ -20 °C	5550 @ -20 °C

- API SN, SM, SL, SJ, CF
- ACEA A3/B3, A3/B4
- MB 229.1
- Renault RN0700

SAMIC OPTIMAL TOPAZ 15W-40 SL is designed with high quality base stocks and advanced technology additive system to provide high level of protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise.

- API SL, SJ, CF
- ACEA A3/B3
- MB 229.1
- VW 505 00

SAMIC PRIMAL JADE SN series is designed with high quality base stocks and latest technology additive system to provide excellent level of protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise. This product meets the requirements of most car manufacturers and is suitable for use in both gasoline and diesel, naturally adapted to vehicles equipped with catalytic converters running on unleaded fuels.

SAMIC PRIMAL TOPAZ SL series are designed with high quality base stocks and advanced technology additive system to provide high level of protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise. This product meets the requirements of most car manufacturers and is suitable for use in both gasoline and diesel, naturally aspirated or turbo charged engines, operating in all round seasons and adapted to vehicles equipped with catalytic converters running on unleaded fuels.

SAMIC PRIMAL AMBER SF/CD series are formulated with premium quality base stocks and balanced additive system to provide superior level of engine protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise. This product meets the requirements of most old and newer model cars and is suitable for standard services.

SAMIC SPECTRA 6000 SF/CD series are monograde crankcase lubricants formulated with high quality base stocks and balanced additive system to provide high level of engine protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise. This product meets the requirements of most mixed fleet applications and is suitable for general service and commercial engines.



### SAMIC PRIMAL JADE SN series

Samic Primal Jade	Test Method	Units	20W-40	20W-50
Density @ 15 °C	ASTM D 4052	gm/cc	0.888	0.890
Viscosity @ 100 °C	ASTM D 445	cSt	14.30	20.4
Viscosity @ 40 °C	ASTM D 445	cSt	107	175
Viscosity Index	ASTM D 2270	-	137	136
Pour Point	ASTM D 97	°C	-30	-30
Flash Point (COC)	ASTM D 92	°C	230	236
Total Base Number	ASTM D 2896	mg KOH/g	8.2	8.2
Phosphorous	ASTM D 4951	% wt	0.1	0.1
CCS Viscosity	ASTM D 5293	cP	6020 @ -15 °C	6060 @ -15 °C

- API SN, SM, SL, SJ, CF
- ACEA A3/B3
- MB 229.1
- Volkswagen VW 505 00

### SAMIC PRIMAL AMBER SF/CD series

Samic Primal Amber	Test Method	Units	20W-40	20W-50
Density @ 15 °C	ASTM D 4052	gm/cc	0.888	0.890
Viscosity @ 100 °C	ASTM D 445	cSt	14.30	20.4
Viscosity @ 40 °C	ASTM D 445	cSt	107	175
Viscosity Index	ASTM D 2270	-	137	136
Pour Point	ASTM D 97	°C	-30	-30
Flash Point (COC)	ASTM D 92	°C	230	236
Total Base Number	ASTM D 2896	mg KOH/g	7.8	7.8
Phosphorous	ASTM D 4951	% wt	0.098	0.098
CCS Viscosity	ASTM D 5293	cP	6020 @ -15 °C	6060 @ -15 °C

- API SF, CD
- ACEA A2/B2

### SAMIC SPECTRA 6000 SF/CD series

Samic Spectra 6000	Test Method	Units	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	11.6	15.4	20.2
Viscosity @ 40 °C	ASTM D 445	cSt	102	158	234
Viscosity Index	ASTM D 2270	-	100	99	99
Pour Point	ASTM D 97	°C	-18	-18	-18
Flash Point (COC)	ASTM D 92	°C	230	236	242
Total Base Number	ASTM D 2896	mg KOH/g	5.8	5.8	5.8
Phosphorous	ASTM D 4951	% wt	0.078	0.078	0.078

- API SF, CD
- ACEA A2/B2



### SAMIC MARVEL JADE 4T SN/MA2 series

SAMIC MARVEL JADE 4T SN/MA2 series is designed with synthetic blend base stocks and advanced technology additive system to provide very high level of engine protection and performance. It is suitable for higher mileage gasoline fueled 4 stroke motor bikes requiring an API SN/CF specification, where very high viscosity index oils are preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.



### SAMIC PRIMAL JADE 4T SN/MA2 series

SAMIC PRIMAL JADE 4T SN/MA2 series is designed with high quality base stocks and advanced technology additive system to provide high level of protection and performance. This product meets the requirements of most motorcycle manufacturers requiring SN/CF specifications and is suitable for use in 4 stroke gasoline engines, naturally aspirated or turbo charged engines, operating in all round seasons and adapted to vehicles equipped with catalytic converters running on unleaded fuels. It is suitable for higher mileage gasoline fueled 4 stroke engines, preferred to provide longer oil drain intervals in modern engines and better oil consumption control in older vehicles where oil usage (burning) is an issue.



### SAMIC MARVEL TOPAZ 4T 10W-40 SL/MA

SAMIC MARVEL TOPAZ 4T 10W-40 SL/MA is designed with high quality Synthetic Blend base stocks and advanced technology additive system to provide high level of protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise. This product meets the requirements of most motorcycle manufacturers and is suitable for use in 4 stroke gasoline engines, naturally aspirated or turbo charged engines, operating in all round seasons and adapted to vehicles equipped with catalytic converters running on unleaded fuels.



### SAMIC PRIMAL CORAL 4T SJ/MA series

SAMIC PRIMAL CORAL 4T SJ/MA series is designed with high quality base stocks and advanced technology additive system to provide high level of protection and performance. It works harder than other conventional motor oils by continuously preventing dirt and sludge build-up and reduces engine noise. This product meets the requirements of most motorcycle manufacturers and is suitable for use in 4 stroke gasoline engines, naturally aspirated or turbo charged engines, operating in all round seasons and adapted to vehicles equipped with catalytic converters running on unleaded fuels.



### SAMIC TWIN TURBO 2T TC-W3

SAMIC TWIN TURBO 2T TC-W3 is low ash premium performance 2 stroke marine outboard engine oil, pre-diluted to facilitate easy mixing with fuel across wide temperature ranges. It is formulated with optimum blend of mineral & synthesized baseoils and advanced technology ashless additive system, to provide efficient performance in oil injected gasoline pre-mixed water cooled 2 stroke marine outboard engines. It is also suitable for use in naturally aspirated air cooled 2 stroke engines such as lawnmowers, chainsaws, motorcycles and auxiliary equipment.



### SAMIC TWIN TURBO 2T OIL

SAMIC TWIN TURBO 2T oil is low ash high performance 2 stroke engine oil, pre-diluted to facilitate mixing when added to fuel. It is formulated with high quality mineral & synthesized baseoils and advanced technology additive system to provide reliable performance in direct injection and pre-mix engines. It is suitable for use in naturally aspirated 2 stroke engines such as lawnmowers, chainsaws, motorcycles and auxiliary equipment.

- NMMA TC-W, TC-WII, TC-W3 • API TC
- API TC • JASO FB, FC, FD • ISO L-EGD

## AUTOMATIC TRANSMISSION FLUID

**SAMIC AUTOTRANSYN DCTF**

SAMIC AUTOTRANSYN DCTF is a high performance dual clutch transmission fluid, formulated with high quality fully synthetic base stocks and advanced additive technology with consistent shear stability for maintaining optimum film thickness for reliable protection of gears and bearings, also providing an outstanding improvement in friction reduction enabling longer drain transmissions. It is designed specifically to be used as a service-full DCT transmission fluid for European, Asian and American vehicles equipped with wet & dry dual clutch transmissions. Outstanding torque retention to provide smooth shift feel without NVH (Noise, Vibration and Harshness) concerns and all-around lubrication protection of the transmission components to help extend transmission service life with a smooth driving experience. It provides exceptional copper corrosion protection for better hardware durability, excellent oxidation control to provide longer fluid life and good seal compatibility for better leakage prevention.

- VW (Audi, Seat, Skoda) 6 speed FWD • Renault EDC 6-speed
- Chrysler Powershift 6-speed • Ford Powershift 6-Speed
- Mitsubishi CT SST 6-speed • Volvo powershift 6-speed
- Peugeot / Citroen DCS 6-speed • Bugatti Veyron

**SAMIC AUTOTRANSYN ATF DEXRON VI**

SAMIC AUTOTRANSYN ATF DEXRON VI is a high performance automatic transmission oil, formulated with high quality synthetic base stocks and sophisticated additive system including high shear stable viscosity index improvers, anti-oxidants, and defoamers providing smooth and controlled friction/wear characteristics, that meets or exceeds the stringent requirements of GM's DEXRON-VI specification and provides protection for 2006 and newer GM vehicles. It also provides improved performance in older GM vehicles, wherever DEXRON is specified. Suitable for all automatic transmissions in passenger cars and commercial vehicles, also used in applications like power steering systems, hydraulics and some manual transmissions where automatic transmission fluid is specified.

- General Motors DEXRON-VI
- BMW JWS 3309 (T-IV)
- CAT TO-2
- Hyundai NWS 9638# Acura ATF-Z1
- Mitsubishi Diaqueen SPW
- MB 236.1/236.9
- Allison C-3 & C-4
- Chrysler ATF+ +2, +3 (MS 7176E), +4 (MS 9602)
- ZF M-1375.4 (4HP)
- Audi 5 HP (TWS 3309) / Nissan Matic S
- Honda ATF DW-1
- MB 236.12 & 236.14
- Porsche T-V (WWS 3309) / Nissan Matic S
- Toyota T-W5 (WWS 3324)
- Vickers M2950 S, I-286-S
- Hyundai KA-SP-IV
- BMW JWS 3309 (T-IV) & WWS 3324 (W)
- Mazda ATF-II/M-V/N-1
- Ford Mercon LV
- ZF TE-MI 09X and all 3 & 4 speed transmission
- Volvo 97340
- GM 236.1/236.9
- Audi/VW (TL 53180, G 052 180, G 052 510)
- BMW/Mini Cooper 8322.0 136 276/8322.0 429 154 (E76 799)
- Dodge / Jeep CVT NS-2 / CVTF+4 / MOPAR CVT 4) / ZF CVT V1
- Ford CVT23 / CVT30 / MERCON C/CFT30/WSS-M2C933-A/Motorcraft XT
- GM/Saturn (DEX-CVTF/I-Green\*) Jaguar ATF 3403 JLM2028
- Daihatsu (Amix CVTF-DC / Amix CVTF DFE) Honda (HCMF, HCF-2)
- Hyundai Genuine CVTF/Mazda CVTF 3320
- Kia (SP-III, SP CVT 1/Punch (E7L 799A) -7 CFCT)
- ASA 1/A shell Green 1/V/NS-1/NS-2/NS-3
- Mercedes Benz CVTF 1/C36.20/F /Toyota-Lexus (F7\*)
- Mini Cooper (eCVTF) /BMW (Dienstöl 4-/Sp-III)
- Subaru (NS-2 / Lineartronic CVTF/CVT/K04250710/CV/e-CVT)
- Suzuki (TC / NS-2 / CVT Green 1 / CVTF Green/CVT 3320)

**SAMIC AUTOTRANSY CVTF**

SAMIC AUTOTRANSY CVTF is a high performance continuous variable transmission fluid, formulated with high quality fully synthetic base stocks and advanced additive technology to ensure consistent repeatable, smooth, stepless shifts under a broad range of driving conditions, temperatures and transmissions. It meets or exceeds the requirements of specifications for many Japanese, American & European designed vehicles and it is also suitable in most OEM CVTs with chain and push belt. It provides smoother, consistent all weather stepless shifting, and all-around lubrication protection of the transmission components to help extend transmission service life and provide a smooth driving experience. Suitable for refill of most pulley-based continuously variable transmissions in Japanese and Korean designed vehicles (except for CVTs that require gear oils and toroidal CVTs), where it emphasizes on Anti-Shudder/Durability performance.

- Brookfield Viscosity @-40°C ASTM D 5293 cP 12,000
- BMW JWS 3309 (T-IV)
- CAT TO-2
- Allison Warner JWS 3309 (T-IV) & WWS 3324 (W)
- Mitsubishi Diaqueen SPW
- MB 236.1/236.9
- Allison C-3 & C-4
- Chrysler ATF+ +2, +3 (MS 7176E), +4 (MS 9602)
- ZF M-1375.4 (4HP)
- Honda ATF DW-1
- MB 236.12 & 236.14
- Porsche T-V (WWS 3309) / Nissan Matic S
- Toyota T-W5 (WWS 3324)
- Vickers M2950 S, I-286-S
- Hyundai KA-SP-IV
- GM 236.1/236.9
- Audi/VW (TL 53180, G 052 180, G 052 510)
- BMW/Mini Cooper 8322.0 136 276/8322.0 429 154 (E76 799)
- Dodge / Jeep CVT NS-2 / CVTF+4 / MOPAR CVT 4) / ZF CVT V1
- Ford CVT23 / CVT30 / MERCON C/CFT30/WSS-M2C933-A/Motorcraft XT
- GM/Saturn (DEX-CVTF/I-Green\*) Jaguar ATF 3403 JLM2028
- Daihatsu (Amix CVTF-DC / Amix CVTF DFE) Honda (HCMF, HCF-2)
- Hyundai Genuine CVTF/Mazda CVTF 3320
- Kia (SP-III, SP CVT 1/Punch (E7L 799A) -7 CFCT)
- ASA 1/A shell Green 1/V/NS-1/NS-2/NS-3
- Mercedes Benz CVTF 1/C36.20/F /Toyota-Lexus (F7\*)
- Mini Cooper (eCVTF) /BMW (Dienstöl 4-/Sp-III)
- Subaru (NS-2 / Lineartronic CVTF/CVT/K04250710/CV/e-CVT)
- Suzuki (TC / NS-2 / CVT Green 1 / CVTF Green/CVT 3320)

**SAMIC AUTOTRANS DX III**

SAMIC AUTOTRANS DXIII is a high performance automatic transmission oil, formulated with high quality hydro-treated base stocks, and advanced additive system including viscosity index improvers, antioxidants, and defoamers providing smooth and controlled friction/wear characteristics, to meet or exceed the requirements of Ford Mercon and General Motors for Dexron II specification, suitable for passenger cars and commercial automatic transmissions, for use in applications like power steering systems, hydraulics and some manual transmissions where automatic transmission fluid is specified.

- GM Dexron III, Type A & Ford Mercon
- MB 236.1/5/6/7/9
- Allison C-4 & CAT TO-2
- Voith Turbo 55.6335 (G607 list) & Volvo 97340
- MAN 339 Z1 & V1 / 339 2Z & V2
- ZF TE-MI 03D/04/09/11A/11B/14A/17C
- GM Dexron II, Type A & Ford
- MB 236.1/5/6/7/9
- Allison C-4/CAT TO-2
- Voith Turbo 55.6335 (G607 list)
- Volvo 97340 / MB 236.1/5/6/7/9

**SAMIC AUTOTRANS DX II**

SAMIC AUTOTRANS DXII is a high performance automatic transmission oil, formulated with high quality hydro-treated base stocks and advanced additive system including viscosity index improvers, antioxidants, and defoamers providing smooth and controlled friction/wear characteristics, to meet or exceed the requirements of Ford Mercon and General Motors for Dexron II specification, suitable for passenger cars and commercial automatic transmissions, for use in applications like power steering systems, hydraulics and some manual transmissions where automatic transmission fluid is specified.

- GM Dexron II, Type A & Ford Mercon
- MB 236.1/5/6/7/9
- Allison C-4/CAT TO-2
- Voith Turbo 55.6335 (G607 list)
- Volvo 97340 / MB 236.1/5/6/7/9
- GM Dexron II, Type A & Ford
- MB 236.1/5/6/7/9
- Allison C-4/CAT TO-2
- Voith Turbo 55.6335 (G607 list)
- Volvo 97340 / MB 236.1/5/6/7/9

**SAMIC AUTOTRANS ATF TYPE A**

SAMIC AUTOTRANS ATF Type A is a high performance automatic transmission oil, formulated with high quality base stocks, shear stable viscosity index improvers and advanced additive system to meet or exceed the requirements of General Motors for Type A specification. Suitable for passenger cars and commercial automatic transmissions, for use in applications like power steering systems, hydraulics and some manual transmissions where automatic transmission fluid is specified.

- GM Dexron Type A
- MB 236.2


**SAMIC SYN SYNCHRO 75W-80 GL-4**

SAMIC SYN SYNCHRO EP 75W80 GL-4 is a high performance heavy duty gear oil, formulated from high quality Synthetic Blend of base oils and an advanced additive system. These lubricants are designed for automotive heavy duty manual transmissions of most OEM like MAN, IVECO, DAF and RENAULT. Moreover, these oils are specially engineered for fuel economy manual transmissions in commercial vehicles.

- API GL-4
- SAE J2360
- MB 235.28
- MAN 341 Type E-3/2-4
- ZF TE MI 01L, 02L, 16K
- Volvo 97305


**SAMIC SYN SYNCHRO HD 80W-140 GL-5**

SAMIC SYN SYNCHRO HD 80W140 GL-5 is a high performance heavy duty gear oil, formulated from high quality Synthetic Blend of base oils and an advanced additive system. These lubricants are designed for automotive heavy duty transmissions, axles and final drives where extreme pressures and shock loadings are expected.

- API GL-5/MT-1
- SAE J2360
- MIL-PRF-2105E
- Mack GO-1
- Scania STO 1:0
- Meritor 0-76-N
- ZF TE MI 05A,12L,12N,16F,21A


**SAMIC SYN SYNCHRO HD 75W-90 GL-5**

SAMIC SYN SYNCHRO HD 75W90 GL-5 is a high performance heavy duty gear oil, formulated from high quality Synthetic Blend of base oils and an advanced additive system. These lubricants are designed for automotive heavy duty transmissions, axles and final drives. Moreover, these oils are specially engineered for heavy-duty axles and final drives where extreme pressures and shock loadings are expected.

- API GL-5/MT-1
- SAE J2360
- MIL-PRF-2105E
- Mack GO-1
- Scania STO 1:0
- MAN 347 M2
- ZF TE MI 05A,12L,12N,16F,17B,19C,21A
- Volvo 97312


**SAMIC SYNCHRO HD GL-5 series**

SAMIC SYNCHRO HD GL-5 series of lubricants are high performance heavy duty gear oils, formulated from high quality base oils and an advanced additive system. These lubricants are designed for automotive heavy-duty transmissions, axles and final drives. Moreover these oils are specially engineered for heavy-duty axles and final drives where extreme pressures and shock loadings are expected.

- API GL-5
- MIL-PRF-2105E (U.S Military Specification)
- MAN 342 M2
- ZF TE MI 05A, 7A, 12E, 16B,C & D, 17B, 19B, 21A


**SAMIC SYNCHRO EP GL-4 series**

SAMIC SYNCHRO EP GL-4 series of lubricants are high performance heavy-duty gear oils, formulated from high quality base oils and an advanced additive system. These lubricants are designed for automotive heavy-duty transmissions, axles and final drives. Moreover these oils are engineered to work efficiently in transmissions where protection against wear and scoring is required and high level of oil film protection is desired.

- API GL-4
- MIL-P-2105 (U.S Military Specification)



### SAMIC ULTIMATE GOLD CI-4/SL series

SAMIC ULTIMATE GOLD CI-4 series uses fully synthetic technology base oil and balanced additive system to deliver fuel economy performance, and to protect modern engines operating under extreme conditions of pressures and temperatures. It's the ideal choice for operators of heavy duty truck and bus fleets equipped with latest emission designs, including those with EGR systems, as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel and petrol engines, providing excellent protection even under the most severe conditions.

Samic Ultimate Gold	Test Method	Units	5W-30	5W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.848	0.850
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	58.65	88.6
Viscosity Index	ASTM D 2270	-	169	168
Pour Point	ASTM D 97	°C	-39	-39
Flash Point (COC)	ASTM D 92	°C	215	228
Total Base Number	ASTM D 2896	mg KOH/g	11.0	11.0
Sulfated Ash	ASTM D 874	% wt	1.1	1.1
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4650 @ -30 °C

\* API CJ-4, CH-4, CG-4, CF-4, SAE 10W-30 • CAT ECF-3 • VOLVO VDS-3 /Renault VI RLD-2 • CAT ECF-3a, ECF-2 • MAN M 3277 /MB 228.5  
• MTU OIL Category 2 • Global DHD-1  
• MACK EO-M Plus • Cummins CES 20076/77/78

### SAMIC MAXIMA MERCURY CK-4/SN series

SAMIC MAXIMA MERCURY CK-4/SN series are advanced performance low-SAPS fully synthetic diesel engine oils formulated with severely refined base stocks and sophisticated technology additives to provide outstanding engine performance in the latest emission designs, including those with after treatment systems with Diesel Particulate Filters (DPF), Selective Catalytic Reduction (SCR) and Diesel Oxidation Catalyst (DOC). It may be used in both new and old diesel engines for On & Off highway applications, due to its backward compatibility down to CJ-4 specifications and may also be used in gasoline engines requiring the API SN specification. They are specifically formulated to deliver excellent wear and engine protection, extended drain capability with excellent TBN retention, outstanding high temperature performance and engine cleanliness.



### SAMIC MAXIMA PLATINUM CJ-4/SN series

SAMIC MAXIMA PLATINUM CJ-4/SN series is extra high performance diesel engine oil formulated with fully synthetic base stocks and advanced technology additives to provide reliable engine performance in the latest emission designs, including those with Exhaust Gas Recirculation (EGR) systems and after treatment systems with Diesel Particulate Filters (DPF) and Diesel Oxidation Catalyst (DOC), as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel & petrol engines and On & Off highway applications, providing excellent protection even under the most strenuous conditions.



### SAMIC MAXIMA GOLD CI-4/SL series

SAMIC MAXIMA GOLD CI-4/SL series uses fully synthetic technology base oils and balanced additive system to deliver fuel economy performance, and to protect modern engines operating under extreme conditions of pressures and temperatures. It's the ideal choice for operators of heavy duty truck and bus fleets equipped with late st emission designs, including those with EGR systems, as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel and petrol engines, providing excellent protection even under the most strenuous conditions.



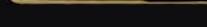
### SAMIC OPTIMA MERCURY 15W40 CK-4/ SN

SAMIC OPTIMA MERCURY 15W-40 CK-4/SN is an advanced performance low-SAPS synthetic diesel engine oil formulated with severely refined base stocks and sophisticated technology additives to provide outstanding engine performance in the latest emission designs, including those with after treatment systems with Diesel Particulate Filters (DPF), Selective Catalytic Reduction (SCR) and Diesel Oxidation Catalyst (DOC). It may be used in both new and old diesel engines for On & Off highway applications, due to its backward compatibility down to CJ-4 specifications and may also be used in gasoline engines requiring the API SN specification. They are specifically formulated to deliver excellent wear and engine protection, extended drain capability with excellent TBN retention, outstanding high temperature performance and engine cleanliness.



### SAMIC OPTIMA PLATINUM 15W40 CJ-4 /SN

SAMIC OPTIMA PLATINUM 15W-40 CJ-4/SN is extra high performance diesel engine oil formulated with highly refined base stocks and advanced technology additives to provide reliable engine performance in the latest emission designs, including those with Exhaust Gas Recirculation (EGR) systems and after treatment systems with Diesel part iculate Filters (DPF) and Diesel Oxidation Catalyst (DOC), as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel & petrol engines and On & Off highway applications, providing excellent protection even under the most strenuous conditions.



### SAMIC OPTIMA GOLD CI-4/SL series

SAMIC OPTIMA GOLD CI-4/SL series is a range of high performance diesel engine oils formulated with highly refined semi-synthetic base stocks and advanced technology additives to provide reliable performance in the latest emission designs, including those with EGR systems, as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel and petrol engines, providing excellent protection even under the most strenuous conditions.

- ACEA E7/A3/B4
- CAT ECF-1a, ECF-2/VOLVO VDS-3
- MTU OIL Category 2 / MACK EO - N
- MAN M3275/MACK EO-M PLUS
- Renault VI RLD-2/Renault VI RLD-2
- Deutz DQC III-09 MACK EO-N /Global DHD-1
- Detroit Diesel 93K215/MB 228.3/MB 229.1
- Cummins CES 20076/7/20078



### SAMIC OPTIMA SILVER 15W-40 CH-4/SL

SAMIC OPTIMA SILVER 15W-40 CH-4/SL diesel engine oil is formulated with high quality base stocks and specially selected additives to ensure optimum performance and protection for diesel engines requiring an API CH-4 specification. Suitable for modern and old diesel engines fitted on trucks, buses, construction or agricultural machinery with or without turbo charger, intercooler or sophisticated injection systems.

- API CH-4, CG-4, CF-4, CF, SL, SJ
- ACEA E7/A3/B4
- CAT ECF-1a
- MTU OIL Category 2
- MAN M3275
- MACK EO-M Plus
- Volvo VDS-2
- Cummins CES 20076/7
- Deutz DQC-II-05
- Renault RD-2
- MB 228.3



### SAMIC OPTIMA FERROUS 15W-40 CF-4

SAMIC OPTIMA FERROUS 15W-40 CF-4 diesel engine oil is formulated with high quality base stocks and selected additives to ensure optimum performance and protection for diesel engines requiring an API CF-4 specification. Suitable for diesel engines for both turbocharged and normally aspirated engines operating under severe service conditions in all seasons.

- API CF-4, CF, SJ
- ACEA E2
- MTU OIL Category-1
- MAN 270/271
- VOLVO VDS
- Deutz DQC-I-05
- MB 228.0/1
- Cummins CES 20076/7/20078
- Detroit Diesel 93K215
- MAN M3275
- MACK EO-N
- Volvo VDS-3
- Deutz DQC-II-05
- Global DHD-1
- MB 228.1/MB 229.1
- Renault VI RLD-2



### SAMIC NOVA GOLD CI-4/SL series

SAMIC NOVA GOLD CI-4/SL series is high performance diesel engine oil formulated with highly refined base stocks and advanced technology additives to provide reliable performance in the latest emission designs, including those with EGR systems, as well as satisfying the needs of older engines. It may be used in naturally aspirated and turbocharged diesel and petrol engines, providing excellent protection even under the most strenuous conditions.

- API CJ-4, CH-4, CG-4, CF-4, CF, SL, SJ
- ACEA E7/A3/B4
- CAT ECF-2
- MTU OIL Category 2
- MAN 3275
- MACK EO-M
- Volvo VDS-3
- Deutz DQC-II-05
- Global DHD-1
- MB 228.0/1
- Renault VI RLD-2



### SAMIC NOVA FERROUS CF-4 series

SAMIC NOVA FERROUS CF-4 series are diesel engine oils formulated with high quality base stocks and selected additives to ensure optimum performance and protection for diesel engines requiring an API CF-4 specification. Suitable for diesel engines for both turbocharged and normally aspirated engines operating under severe service conditions in all seasons.

- API CF-4, CF, SJ
- ACEA E2
- MTU OIL Category-1
- MAN 270/271
- VOLVO VDS
- Deutz DQC-I-05
- MB 228.0/1
- Caterpillar TO-2



### SAMIC DYNAMO 9000 CF series

SAMIC DYNAMO 9000 CF is a range of diesel engine oils formulated with high quality base stocks and selected additives to ensure optimum performance and protection for diesel engines requiring an API CF specification. Suitable for heavy duty, high output diesel engines where monograde oils are specified. It provide excellent protection in engines, against high temperature piston deposits, wear, corrosion and foaming under severe operating conditions.

- API CF-2, CD-2, CF, CD, SF
- MAN 270
- ACEA E2
- MTU Type-1
- Mercedes Benz 228.0
- Caterpillar TO-2

DIESEL ENGINE OIL

## SAMIC AUTO COOL series

SAMIC AUTO COOL series radiator coolant is formulated with high quality corrosion inhibited Mono-Ethylene glycol liquid and carefully selected additives to provide year round automotive cooling system treatment. It is designed to provide complete cooling system protection in a concentration range of 33% to 100% by volume.

Auto Cool	Test Method	Units	Value	Concentration
Grade	--	--	33%	40% 50-50 100%
Density @ 20°C	ASTM D 4052	gm/cc	1.050	1.080 1.089 1.118
Color	ASTM D 1500	--	Green	Green Green Green
pH	ASTM D 1287	--	7.9	8.0 8.0 9.6
Boiling Point	ASTM D 1120	°C	>105	>135 >140 150 min
Flash Point	ASTM D 92	°C	>110	>110 110 min
Freezing Point	ASTM D 1177	°C	-18	-27 -36 N/A

\* ASTM 3306  
• British Standard - BS 6580



## SAMIC AUTO COOL ELC series

SAMIC AUTO COOL ELC an 'Extended Life Coolant' is fill-for-life antifreeze concentrate, formulated with high quality Ethylene glycol and Organic Acid Technology (OAT) based corrosion inhibitor (BASF Glysanthin G30) additive to provide year round automotive cooling system treatment. It is designed to provide complete cooling system protection in a concentration range of 33% (-18.0 °C) & 50% (-37.0 °C) by volume. It is free from nitrite, amine, phosphate, silicate and borate and based on mono ethylene glycol, which must be diluted with water before use.

Auto Cool ELC	Test Method	Units	Value
Chemical Nature	--	--	Mono Ethylene Glycol - Glysanthin G30
Density @ 20°C	ASTM D 4052	gm/cc	1.122 - 1.125
Color	ASTM D 1500	--	Magenta/Fluorescent Pink/Red
Viscosity @ 20°C	ASTM D 445	mm <sup>2</sup> /sec	22 - 26
Refraction @ 20°C	DIN 51423	--	1.432 - 1.436
pH	ASTM D 1287	--	8.2 - 8.6
Boiling Point	ASTM D 1120	°C	>160
Flash Point	ASTM D 92	°C	>120
Freezing Point	ASTM D 1177	°C	N/A

\* MAN 324-SNF  
• Mercedes-Benz DBL 7700.30, page 325.3  
• MTU MTL 504B  
• Porsche Carrera, Boxster, Cayenne  
• Scania T102-98 0813 T/B/M sv  
• VW/Audi/Seat/Skoda/Bentley/Lamborghini: TL 774-D/-



## SAMIC AUTO COOL LLC series

SAMIC AUTO COOL LLC series is 'Long Life Coolant' is fill-for-life antifreeze concentrate, formulated with high quality Ethylene glycol and Silicate-Hybrid Technology based corrosion inhibitor (BASF Glysanthin G48) additive to provide year round automotive cooling system treatment. It is designed to provide complete cooling system protection in a concentration range of 33% (-18.0 °C) & 50% (-37.0 °C) by volume. It is free from nitrite, amine, phosphate and borate and based on mono ethylene glycol, which must be diluted with water before use.

Auto Cool LLC	Test Method	Units	Value
Chemical Nature	--	--	Mono Ethylene Glycol - Glysanthin G48
Density @ 20°C	ASTM D 4052	gm/cc	1.122 - 1.125
Color	ASTM D 1500	--	Blue
Viscosity @ 20°C	ASTM D 445	mm <sup>2</sup> /sec	22 - 26
Refraction @ 20°C	DIN 51423	--	1.432 - 1.436
pH	ASTM D 1287	--	8.2 - 8.6
Boiling Point	ASTM D 1120	°C	>160
Flash Point	ASTM D 92	°C	>120
Freezing Point	ASTM D 1177	°C	N/A

\* MAN 324-NF  
• Mercedes-Benz DBL 7700.20, page 325.0  
• MTU MTL 504B  
• Porsche Carrera, Boxster, Cayenne  
• Scania T102-98 0813 T/B/M sv  
• Volvo Truck/Car 1286083 issue 002



## SAMIC BRAKE FLUID DOT-4

SAMIC BRAKE FLUID DOT-4 are supreme performance hydraulic brake fluid based on polyethylene glycol ether technology to provide a high level of brake and clutch performance in automotive and commercial vehicles. They are designed to meet or exceed the general requirements of most builders of automotive disc, drum and anti-skid brake systems and clutch systems, used in average to high performance vehicles requiring DOT 3 or DOT 4 level performance.



- FMVSS 116 DOT 4
- SAE J-1703
- ISO 4925 Class 3 & 4
- FMVSS 116 DOT 3
- SAE J-1703
- ISO 4925 Class 3

## SAMIC BRAKE FLUID DOT-3

SAMIC BRAKE FLUID DOT-3 are supreme performance hydraulic brake fluid based on polyethylene glycol ether technology to provide a high level of brake and clutch performance in automotive and commercial vehicles. They are designed to meet or exceed the general requirements of most builders of automotive disc, drum and anti-skid brake systems and clutch systems.



- FMVSS 116 DOT 3
- SAE J-1703
- ISO 4925 Class 3

## SAMIC SPRAY CUT OIL

SAMIC Spray Cut Oil is high quality water soluble cutting oil specifically formulated for cutting and grinding operations of metalworking for both ferrous and non-ferrous components. These oils are formulated to provide outstanding emulsion stability & rust inhibition and works satisfactorily for all types of processes involving fine carbon steels.

Application in following ratios:

- 3 - 5% for general metal working.
- 2.5 - 4% for grinding.
- 5 - 10% for heavy duty cutting.
- 5 - 6% for use as a fire-resistant hydraulic fluid.

Properties:

- Specific gravity @ 60/60°F: ASTM D 4052: 0.872
- Viscosity @ 40°C: ASTM D 445: cSt: 40.5
- pH value (1% solution in distilled H<sub>2</sub>O): E70: 9.0 max
- Emulsion stability, 24 hour: E70: 9.0 max
- Emulsion stability, 24 hour: ASTM D 3707: Slight ring - no oil trace
- B. 5% in 340 ppm CaCO<sub>3</sub>: 2 ml cream - no oil trace
- Pour Point: ASTM D 97: °C: -12 (max)
- Flash Point (COC): ASTM D 92: °C: 185 (min)
- Sulfur content: ASTM D 495: %wt: 0.35



## SPECIALITY OILS



## SAMIC COAST GUARD 15 series

SAMIC COAST GUARD 15 series is a range of high performance marine diesel engine oils formulated with premium quality base stocks and selected additives to ensure optimum performance and protection for trunk piston engines, operating on low sulphur distillate fuels. Suitable for heavy duty diesel engines in Marine and Industrial applications, where monograde oils are specified. It provides excellent protection in engines, against high temperature piston deposits, wear, corrosion and foaming under severe operating conditions.

\*API CF



## SAMIC COAST GUARD 20 series

SAMIC COAST GUARD 20 series is a range of high performance marine diesel engine oils formulated with premium quality base stocks and selected additives to ensure optimum performance and protection for trunk piston engines, operating on low/moderate sulphur distillate fuels. Suitable for heavy duty diesel engines in Marine and Industrial applications, where monograde oils are specified. It provides excellent protection in engines, against high temperature piston deposits, wear, corrosion and foaming under severe operating conditions.

\*API CF



## SAMIC COAST GUARD 30 series

SAMIC COAST GUARD 30 series is a range of high performance 30 TBN marine diesel engine oils formulated with premium quality base stocks and high performance additive detergent technology to ensure optimum performance and protection for trunk piston engines. They are designed to operate efficiently in severe residual-fuelled medium-speed diesel applications found in marine and stationary power industries. These TPEOs provide outstanding residual fuel compatibility and excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston under crowns operating under severe conditions.

\*API CF



## SAMIC COAST GUARD 40 series

SAMIC COAST GUARD 40 series is a range of high performance 40 TBN marine diesel engine oils formulated with premium quality base stocks and high performance additive detergent technology to ensure optimum performance and protection for highly rated trunk piston engines. They are designed to operate efficiently in severe residual-fuelled medium-speed diesel applications found in marine and stationary power industries. These TPEOs provide outstanding residual fuel compatibility and excellent engine cleanliness, especially in crankcase, camshaft areas, ring belt and piston under crowns operating under severe conditions.

\*API CF



## SAMIC COAST GUARD MDCL 7050

SAMIC COAST GUARD MDCL 7050 is extra high performance 70 TBN marine diesel cylinder oil formulated with premium quality base stocks and high performance additive detergent & special anti-wear technology. This cylinder oil ensures optimum performance and excellent protection in low speed 2-stroke marine diesel engines, operating on severe residual fuels & HFO with sulfur content in range of 1.0% to 3.5%. It is designed to provide excellent anti-wear properties to potentially reduce liner & ring wear and demonstrate outstanding anti-scuffing property under severe operating conditions.

\*API CF



## SAMIC COAST GUARD SO 6 series

SAMIC COAST GUARD SO 6 series is a range of high performance marine multipurpose system oils formulated with high quality paraffinic base stocks and balanced additive system to ensure optimum performance and excellent protection in low speed, high output cross head marine engines, operating on residual fuels. It has sufficient alkalinity to neutralize any strong acidic combustion products which may enter into the crankcase and it demonstrates high load carrying ability under severe operating conditions.

\* API CD

\* US Military MIL-L-2104C

## SAMIC HYDRA HYD HVI series

SAMIC HYDRA HYD HVI range of lubricants are high viscosity index anti-wear hydraulic fluids formulated with high quality HVI base stocks and advanced anti-wear additive technology. They are designed to work efficiently in hydraulic & fluid power transmission systems, subjected to wide temperature ranges operating under severe conditions. These oils are available in ISO viscosity grades from 15 to 150.

- DIN 51524 Part 3 HLP type
- Denison HF-0, HF-2 (T6H20C)
- Cincinnati Machine P68, P65, P70
- ISO 6743/4 HV
- VICKERS M-29505, I-286
- VICKERS 35VQ25, 104C

## SAMIC HYDRA HYD AW series

SAMIC HYDRA HYD AW range of lubricants are supreme performance anti wear hydraulic oils formulated with high quality base stocks and balanced additive technology. They are designed to work efficiently in hydraulic systems operating under severe conditions, where high levels of anti-wear and oil film strength protection are desired. Moreover they are also designed to work in systems where non anti-wear hydraulic oils are generally recommended.

- DIN 51524 Part 2 HLP type
- Denison HF-0 (T6H20C)
- VICKERS (HV HVI HDS)
- VICKERS M-29505, I-286

## SAMIC INDUS GEAR EP series

SAMIC INDUS GEAR EP series of lubricants are supreme performance industrial gear oils, formulated with high quality base stocks fortified with sulfur-phosphorus additive system. They are designed to work efficiently in all types of enclosed gear drives with circulation or splash lubrication systems, where outstanding extreme pressure characteristics (EP/AW properties),extremely high load carrying capability and excellent demulsifying properties are desired. Moreover they offer extremely high protection against Micro pitting, wear and corrosion in enclosed gears and all types of oil lubricated bearings. Suitable for use in large & small spur bevel, spiral helical & herringbone gears .

- DIN 51524 Part 2 HLP type
- Denison HF-0 (T6H20C)
- VICKERS (HV HVI HDS)
- VICKERS M-29505, I-286

## SAMIC ROTA R series

SAMIC ROTA R Test Method Units 32 46 68 100 150  
ISO Viscosity Grade ISO 3448 - 32 46 68 100 150  
Density @ 15 °C ASTM D 4052 gm/cc 0.870 0.872 0.875  
Viscosity @ 40 °C ASTM D 445 cSt 32.2 46.5 68.8 100.8 150.2  
Viscosity @ 100 °C ASTM D 445 cSt 5.38 6.78 8.72 11.15 14.56  
Viscosity Index ASTM D 2270 - 100 100 98 98 95 95  
Pour Point ASTM D 97 °C -39 -39 -36 -36 -32 -33  
Flash Point (COC) ASTM D 92 °C 202 204 224 230 234 246 272  
Copper Strip Corrosion ASTM D 130 - 1A 1B 1B 1B 1B 1B  
Rust Characteristics Proc B ASTM D 665 - Pass Pass Pass Pass Pass Pass Pass  
Foam Seq I,II,III ASTM D 892 ml/ml 20/0 20/0 20/0 20/0 20/0 20/0 20/0

## SAMIC ROTA T series

SAMIC ROTA T series are high performance zinc free turbine oils formulated with high quality hydro treated base stocks and advanced additive technology, to provide exceptional equipment protection and reliability in most non-gearaged steam turbine systems and low to moderate duty gas turbines. They are designed to demonstrate excellent oxidation stability, resistance to sludge & varnish formation, protection against rust & corrosion, low foaming and excellent demulsibility.

- DIN 51515 Part-1 & Part-2
- MAN Turbo Quality Requirements for Lubricants
- Siemens(n)-EP, TLV 901304,TLV 901305
- GE GEK 28413B/27070/32568/107395A/46506E
- British Standard BS489 & Solar ES9-224W
- Alstom Power Turbo HTGD 90-117/0001X(non-EP)

## SAMIC THERM FLUID series

SAMIC Therm Fluid Test Method Units 32 46 68  
ISO Viscosity Grade ISO 3448 - 32 46 68  
Density @ 15 °C ASTM D 4052 gm/cc 0.860 0.865 0.880  
Viscosity @ 40 °C ASTM D 445 cSt 32.4 46.8 68.9  
Viscosity @ 100 °C ASTM D 445 cSt 5.38 6.78 8.77  
Viscosity Index ASTM D 2270 - 98 98 98 98 98 98  
Pour Point ASTM D 97 °C -30 -30 -30 -27 -27 -25  
Flash Point (COC) ASTM D 92 °C 224 230 234 246 272  
Copper Strip Corrosion ASTM D 130 - 1A 1A 1A 1A 1A  
Rust Characteristics Proc B ASTM D 665 - Pass Pass Pass Pass Pass Pass  
Foam Seq I,II,III ASTM D 892 ml/ml 10/0 10/0 10/0 10/0 10/0 20/0

## INDUSTRIAL OILS

## SAMIC TRANSFLUID STOU/UTTO series

SAMIC Transfluid STOU/UTTO series are extra high performance multipurpose tractor lubricants formulated from highly refined base stocks and advanced technology additive system, to meet or exceed transmission and hydraulic fluid requirements. These oils are engineered to deliver the varied lubricant performance properties required in severe duty applications of agricultural and construction equipment drive trains. Moreover it is particularly well suited for reducing wet brake and Power Take-Off (PTO) chatter.

### UTTO Specifications:

- API GL-4/ Allison C-4/ Caterpillar TO-2
- Massey Ferguson: M1135,43,45
- John Deere J20C/J20D
- Ford M2C134D/M2C86B,C
- JI Case/Case Int: MS 1204,6,7,9
- CNH MAT 525,526

### STOU Specifications:

- API CG-4/C-4,CF/CE/CF/CD/SF
- MB 228.1/227.1/A ACE E3
- John Deere J2
- Ford M2C159B,C/New Holland
- Sperry Vickers/Eaton: M29505,I-280-S

### Hydraulic Oil Specifications

- Sperry Vickers/Eaton: M29505,I-280-S

### API Oil Specifications:

- API CG-4/C-4,CF/CE/CF/CD/SF

### John Deere J2

### Ford M2C159B,C/New Holland

### Sperry Vickers/Eaton: M29505,I-280-S

### Massey Ferguson: M1139,44,45

## SAMIC TRANS HD series

SAMIC Trans HD series is a range of extra high performance transmission and drive train oils, formulated with high quality base stocks and advanced additive system to meet or exceed the requirements of Caterpillar TO-4 specification. Suitable to provide heavy duty performance benefits in power shift transmissions, gearboxes, final drives and high pressure hydraulic applications. It helps in maximizing the productivity in construction, quarrying and mining equipment operating under severe conditions.

SamicTrans HD	Test Method	Units	10W	30	50	60
Density @ 15 °C	ASTM D 4052	gm/cc	0.880	0.892	0.904	0.910
Viscosity @ 100 °C	ASTM D 445	cSt	5.6	11.6	20.5	25.6
Viscosity @ 40 °C	ASTM D 445	cSt	35	108	254	356
Viscosity Index	ASTM D 2270	-	96	95	95	95
Pour Point	ASTM D 97	°C	-33	-18	-12	-12
Flash Point (COC)	ASTM D 92	°C	212	225	6000 to -20 °C	6000 to -15 °C
CCS Viscosity	ASTM D 5293	cP	5550 to -25 °C	6000 to -20 °C	6000 to -15 °C	6000 to -10 °C
Zinc	ASTM D 4951	%wt	0.12 (Min) - 0.19 (max)			

## SAMIC XTREME COMPACT GREASE EP series

SAMIC XTREME COMPACT GREASE EP series are high performance greases, formulated with lithium complex based thickeners, high viscosity index base oils and extreme pressure additive system to provide excellent protection against wear, rusting and water washout. They are available in NLGI grades ranging from 00 to 3 with base oil viscosity of ISO VG 220. They are suitable for most types of Automotive and Industrial applications, including heavy-duty Marine applications where high temperatures, heavy loads and extreme unit pressures are present. EP 1, 2, 3 & 2 Molygreases are suitable for operating temperatures range from -20°C to 140°C, while EP 0 & 00 greases are suitable for operating temperatures range from -25°C to 130°C.

Samic Xtreme Compact	Test Method	Units	EP 2	EP 3
NLGI Grade	ASTM D 217	--	2	3
Thickener Type	--	--	Lithium Complex	Lithium Complex
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	220	220
Dropping Point	ASTM D 566	°C	230 (min)	230 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	315	315

## SAMIC COMPACT MOLY GREASE EP series

SAMIC COMPACT MOLY GREASE EP series are high performance greases, formulated with lithium based thickeners fortified with Molybdenum Disulfide (MoS<sub>2</sub>) solid lubrication, high quality base oils and extreme pressure additive system to provide excellent protection against wear, rusting and water washout. They are available in NLGI grades ranging from 00 to 3 with base oil viscosity of ISO VG 460 & 320. They are suitable for most types of Automotive and Industrial applications, including heavy-duty Marine applications where high temperatures, heavy shock loads and extreme unit pressures are present. Moly Grease EP 1, 2 & 3 greases are suitable or operating temperatures range from -20°C to 130°C, while Moly Grease EP 0 & 00 greases are suitable for operating temperatures range from -25°C to 120°C.

Samic Compact Moly Grease	Test Method	Units	EP 2	EP 3
NLGI Grade	ASTM D 217	--	2	3
Thickener Type	--	--	Li-Moly	Li-Moly
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	320	320
Dropping Point	ASTM D 566	°C	190 (min)	190 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	315	315

## SAMIC COMPACT GREASE EP series

SAMIC COMPACT GREASE EP series are high performance greases, formulated with lithium based thickeners and extreme pressure additive system to provide extra protection against wear, rusting and water washout. They are available in NLGI grades ranging from 000 to 3 with base oil viscosity of ISO VG 150, 320 & 460. They are suitable for most types of Automotive and Industrial applications, including heavy-duty applications where high unit pressures are present. EP 0, 1, 2 & 3 greases are suitable for operating temperatures range from -20°C to 130°C, while EP 00 & 000 greases are suitable for operating temperatures range from -25°C to 120°C.

Samic Compact Grease	Test Method	Units	EP 000	EP 00	EP 0	EP 1	EP 2	EP 3
NLGI Grade	ASTM D 217	--	000	00	0	1	2	3
ISO Grade	6743-9	--	L-XCBEB	L-XCBEB	L-XCBEB	L-XCBEB	L-XCBEB	L-XCBEB
DN Grade	51502	--	GP00DG	GP00DG	MPK-25	KPL-130	KZPK-25	KZPK-20
Thickness Type	--	--	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	445-475	400-430	355-385	310-340	265-295	220-250
Viscosity @ 40 °C	ASTM D 445	cSt	460	320	160	160	160	160
Dropping Point	ASTM D 566	°C	-	-	190 (min)	190 (min)	190 (min)	190 (min)
4-Ball Wear, Scar	ASTM D 2266	mm	0.5	0.5	0.4	0.4	0.4	0.4
4-Ball Weld Load	ASTM D 2596	Kg	240	240	250	250	250	250

## SAMIC COMPACT GREASE MP series

SAMIC COMPACT GREASE MP series are high performance greases, formulated with lithium based thickeners and an ISO VG 150 mineral base stock to provide added protection against wear, rusting and water washout. They are available in NLGI grades 2 & 3, which are suitable for general purpose automotive applications at moderate temperatures and loads. The suitable operating temperature range is from -20°C to 120°C. It does not contain lead or any other heavy metals which are considered harmful to human health and environment.

Samic Compact Grease	Test Method	Units	MP 2	MP 3
NLGI Grade	ASTM D 217	--	2	3
Thickener Type	--	--	Lithium	Lithium
Color	Visual	--	Cream	Cream
Texture	Visual	--	Smooth	Smooth
Penetration, Worked @ 25 °C	ASTM D 217	0.1mm	265-295	220-250
60 strokes				
Viscosity @ 40 °C	ASTM D 445	cSt	150	150
Dropping Point	ASTM D 566	°C	190 (min)	190 (min)
4-Ball Wear, Scar test	ASTM D 2266	mm	0.6	0.6

- DIN 51502: KZPK-25/ KZPK-20
- ISO 6743-9: L-XBCEA-2/3