



LUBRICANTS SPECIALIST

PRODUCT CATALOGUE

AUTOMOTIVE . MARINE . INDUSTRIAL . COMMERCIAL



AUTOMOTIVE . MARINE . INDUSTRIAL . COMMERCIAL
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, Infineum 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 turbo-charged gasoline direct injection (TGD) and non TGD designs, supercharged gasoline and certain diesel multi-valve fuel injected systems.

Samic Excel Supreme	Test Method	Units	0W-16	0W-20	0W-30
Density @ 15 °C	ASTM D 4052	gm/cc	0.840	0.840	0.845
Viscosity @ 100 °C	ASTM D 445	cSt	7.45	8.6	10.4
Viscosity @ 40 °C	ASTM D 445	cSt	38.75	44.8	58.0
Viscosity Index	ASTM D 2270	-	165	173	171
Pour Point	ASTM D 97	°C	-42	-42	-42
Flash Point (COC)	ASTM D 92	°C	220	220	225
Total Base Number	ASTM D 2896	mg KOH/g	7.7	7.7	7.7
Phosphorous	ASTM D 4951	% wt	0.077	0.077	0.077
CCS Viscosity	ASTM D 5293	cP	5060 @ -35 °C	5560 @ -35 °C	5600 @ -35 °C

• API SP, SN Plus, SN, SM, SL, SJ • Ford WSS-M2C947-A/B1, WSS-M2C962-A1
• ILSAC GF-6A, HONDA, TOYOTA, MITSUBISHI • General Motors dexos1 Gen2



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 turbo-charged (including latest TGD), supercharged gasoline and certain diesel multi-valve fuel injected systems.

Samic Excel Jade XFE	Test Method	Units	0W-20	0W-30
Density @ 15 °C	ASTM D 4052	gm/cc	0.840	0.845
Viscosity @ 100 °C	ASTM D 445	cSt	8.6	10.4
Viscosity @ 40 °C	ASTM D 445	cSt	44.8	58.0
Viscosity Index	ASTM D 2270	-	173	171
Pour Point	ASTM D 97	°C	-42	-42
Flash Point (COC)	ASTM D 92	°C	220	225
Total Base Number	ASTM D 2896	mg KOH/g	8.0	8.0
Phosphorous	ASTM D 4951	% wt	0.078	0.078
CCS Viscosity	ASTM D 5293	cP	5560 @ -35 °C	5600 @ -35 °C

• API SN Plus, SN, SM, SL, SJ • General Motors dexos1 Gen2
• ILSAC 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, to provide very high level of engine protection an 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 turbo charged, supercharged gasoline and certain diesel multi-valve fuel injected systems.

Samic Excel Jade FE	Test Method	Units	0W-20	0W-30
Density @ 15 °C	ASTM D 4052	gm/cc	0.840	0.845
Viscosity @ 100 °C	ASTM D 445	cSt	8.6	10.4
Viscosity @ 40 °C	ASTM D 445	cSt	44.8	58.0
Viscosity Index	ASTM D 2270	-	173	171
Pour Point	ASTM D 97	°C	-42	-42
Flash Point (COC)	ASTM D 92	°C	220	225
Total Base Number	ASTM D 2896	mg KOH/g	8.0	8.0
Phosphorous	ASTM D 4951	% wt	0.078	0.078
CCS Viscosity	ASTM D 5293	cP	5560 @ -35 °C	5600 @ -35 °C

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



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 turbo-charged, supercharged gasoline and certain diesel multi-valve fuel injected systems.

Samic Excel Jade	Test Method	Units	0W-30	0W-40	0W-60
Density @ 15 °C	ASTM D 4052	gm/cc	0.840	0.845	0.850
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30	22.50
Viscosity @ 40 °C	ASTM D 445	cSt	54.2	80.9	144.75
Viscosity Index	ASTM D 2270	-	185	185	185
Pour Point	ASTM D 97	°C	-48	-48	-48
Flash Point (COC)	ASTM D 92	°C	228	236	245
Total Base Number	ASTM D 2896	mg KOH/g	10.2	10.2	10.2
Phosphorous	ASTM D 4951	% wt	0.1	0.1	0.1
CCS Viscosity	ASTM D 5293	cP	4050 @ -35 °C	4180 @ -35 °C	5550 @ -35 °C

• API SN, SM, SL, SJ, CF • BMW Long Life- 01
• ACEA A3/B3, A3/B4 • Renault RN 0700/0710
• VW 502 00/505 00 • MB 229.3/ 229.5
• Porsche A40



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 turbo-charged, supercharged gasoline and certain diesel multi-valve fuel injected systems.

Samic Excel Ivory	Test Method	Units	0W-30	0W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.840	0.845
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	54.2	80.9
Viscosity Index	ASTM D 2270	-	185	185
Pour Point	ASTM D 97	°C	-48	-48
Flash Point (COC)	ASTM D 92	°C	228	236
Total Base Number	ASTM D 2896	mg KOH/g	8.4	8.4
Phosphorous	ASTM D 4951	% wt	0.098	0.098
CCS Viscosity	ASTM D 5293	cP	4050 @ -35 °C	4180 @ -35 °C

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



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	Test Method	Units	5W-30	5W-40	5W-50
Density @ 15 °C	ASTM D 4052	gm/cc	0.848	0.850	0.855
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30	20.50
Viscosity @ 40 °C	ASTM D 445	cSt	58.65	88.6	140.35
Viscosity Index	ASTM D 2270	-	169	170	170
Pour Point	ASTM D 97	°C	-42	-42	-42
Flash Point (COC)	ASTM D 92	°C	220	228	230
Total Base Number	ASTM D 2896	mg KOH/g	10.2	10.2	10.2
Phosphorous	ASTM D 4951	% wt	0.1	0.1	0.1
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4650 @ -30 °C	4850 @ -30 °C

- API SN, SM, SL, SJ, CF
- MB 229.3/229.5
- VW 502 00/505 00
- ACEA A3/B3, A3/B4
- Renault RN 0700
- Porsche A40
- BMW Long Life-01

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 (DPFs) and avoids poisoning of Gasoline Catalytic Converters (CAT's).

Samic Vital Jade C3	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	-42	-42
Flash Point (COC)	ASTM D 92	°C	220	228
Total Base Number	ASTM D 2896	mg KOH/g	7.6	7.6
Phosphorous	ASTM D 4951	% wt	0.078	0.078
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4650 @ -30 °C

- API SN, CF
- ACEA C2-12
- BMW LongLife-04
- VW 502/505
- Porsche C30
- MB 229.31

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 (DPFs) and avoids poisoning of Gasoline Catalytic Converters (CAT's).

Samic Vital Jade C2	Test Method	Units	5W-20	5W-30
Density @ 15 °C	ASTM D 4052	gm/cc	0.845	0.848
Viscosity @ 100 °C	ASTM D 445	cSt	8.9	10.4
Viscosity @ 40 °C	ASTM D 445	cSt	49.5	58.65
Viscosity Index	ASTM D 2270	-	161	169
Pour Point	ASTM D 97	°C	-39	-39
Flash Point (COC)	ASTM D 92	°C	215	220
Total Base Number	ASTM D 2896	mg KOH/g	7.8	7.8
Phosphorous	ASTM D 4951	% wt	0.080	0.080
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4560 @ -30 °C

- API SN, CF
- ACEA C2-12
- PSA B71 2290
- ACEA C2-12
- FIAT 955535-51
- Renault RN 0700

SAMIC VITAL JADE FE SN series

SAMIC VITAL JADE FE SN series are advanced technology engine oils blended fortified with balanced additive system, specifically formulated to help deliver high performance fully synthetic base stocks in 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 Jade FE	Test Method	Units	5W-20	5W-30
Density @ 15 °C	ASTM D 4052	gm/cc	0.848	0.848
Viscosity @ 100 °C	ASTM D 445	cSt	8.9	10.4
Viscosity @ 40 °C	ASTM D 445	cSt	49.5	58.65
Viscosity Index	ASTM D 2270	-	161	169
Pour Point	ASTM D 97	°C	-39	-39
Flash Point (COC)	ASTM D 92	°C	215	220
Total Base Number	ASTM D 2896	mg KOH/g	8.0	8.0
Phosphorous	ASTM D 4951	% wt	0.078	0.078
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4560 @ -30 °C

- API SN, SM, SL, SJ
- LSAC GF-5, HONDA, TOYOTA, MITSUBISHI
- Ford WSS-M2C945-A/WSS-M2C930-A (5W-20)
- LSAC GF-5, HONDA, TOYOTA, MITSUBISHI
- Ford WSS-M2C946-A/B1, WSS-M2C929-A (5W-30)
- General Motors dexos1

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 Ivory SM	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	220	228
Total Base Number	ASTM D 2896	mg KOH/g	8.0	8.0
Phosphorous	ASTM D 4951	% wt	0.072	0.072
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4650 @ -30 °C

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 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 Vital Topaz SL	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	-42	-42
Flash Point (COC)	ASTM D 92	°C	220	228
Total Base Number	ASTM D 2896	mg KOH/g	8.0	8.0
Phosphorous	ASTM D 4951	% wt	0.098	0.098
CCS Viscosity	ASTM D 5293	cP	4560 @ -30 °C	4650 @ -30 °C

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



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.

Samic Marvel Jade SN	Test Method	Units	10W-30	10W-40	10W-60
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.870	0.875
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30	22.50
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	95	175.7
Viscosity Index	ASTM D 2270	-	156	155	155
Pour Point	ASTM D 97	°C	-36	-36	-36
Flash Point (COC)	ASTM D 92	°C	215	230	236
Total Base Number	ASTM D 2896	mg KOH/g	8.2	8.2	8.2
Phosphorous	ASTM D 4951	% wt	0.1	0.1	0.1
CCS Viscosity	ASTM D 5293	cP	5550 @ -25 °C	5650 @ -25 °C	6050 @ -25 °C

- 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 injected systems.

Samic Marvel Jade FE SN	Test Method	Units	10W-30
Density @ 15 °C	ASTM D 4052	gm/cc	0.855
Viscosity @ 100 °C	ASTM D 445	cSt	10.4
Viscosity @ 40 °C	ASTM D 445	cSt	64.5
Viscosity Index	ASTM D 2270	-	149
Pour Point	ASTM D 97	°C	-36
Flash Point (COC)	ASTM D 92	°C	225
Total Base Number	ASTM D 2896	mg KOH/g	8.0
Phosphorous	ASTM D 4951	% wt	0.078
CCS Viscosity	ASTM D 5293	cP	5900 @ -25 °C

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

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.

Samic Marvel Ivory	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.870
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	95
Viscosity Index	ASTM D 2270	-	156	155
Pour Point	ASTM D 97	°C	-36	-36
Flash Point (COC)	ASTM D 92	°C	220	230
Phosphorous	ASTM D 4951	% wt	0.072	0.072
CCS Viscosity	ASTM D 5293	cP	5550 @ -25 °C	5650 @ -25 °C

- API SM, SL, SJ, CF

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.

Samic Marvel Topaz	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.870
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	95
Viscosity Index	ASTM D 2270	-	156	155
Pour Point	ASTM D 97	°C	-36	-36
Flash Point (COC)	ASTM D 92	°C	220	230
Total Base Number	ASTM D 2896	mg KOH/g	8.0	8.0
Phosphorous	ASTM D 4951	% wt	0.098	0.098
CCS Viscosity	ASTM D 5293	cP	5550 @ -25 °C	5650 @ -25 °C

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

SAMIC MARVEL CORAL SJ series

SAMIC MARVEL CORAL SJ/CF 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.

Samic Marvel Coral	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.870
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	95
Viscosity Index	ASTM D 2270	-	156	155
Pour Point	ASTM D 97	°C	-36	-36
Flash Point (COC)	ASTM D 92	°C	220	230
Total Base Number	ASTM D 2896	mg KOH/g	6.2	6.2
Phosphorous	ASTM D 4951	% wt	0.098	0.098
CCS Viscosity	ASTM D 5293	cP	5550 @ -25 °C	5650 @ -25 °C

- 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

Samic Marvel Amber	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.870
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	95
Viscosity Index	ASTM D 2270	-	156	155
Pour Point	ASTM D 97	°C	-36	-36
Flash Point (COC)	ASTM D 92	°C	220	230
Total Base Number	ASTM D 2896	mg KOH/g	5.8	5.8
Phosphorous	ASTM D 4951	% wt	0.078	0.078
CCS Viscosity	ASTM D 5293	cP	5550 @ -25 °C	5650 @ -25 °C

- API SF, CD
- ACEA A2/B2
- newer model cars and is suitable for standard services.

PASSENGER CAR MOTOR OIL

PASSENGER CAR MOTOR OIL



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 Jade	Test Method	Units	15W-40	15W-50
Density @ 15 °C	ASTM D 4052	gm/cc	0.870	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

Samic Optimal Topaz	Test Method	Units	15W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.878
Viscosity @ 100 °C	ASTM D 445	cSt	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	100
Viscosity Index	ASTM D 2270	-	147
Pour Point	ASTM D 97	°C	-33
Flash Point (COC)	ASTM D 92	°C	230
Total Base Number	ASTM D 2896	mg KOH/g	7.8
Phosphorous	ASTM D 4951	% wt	0.098
CCS Viscosity	ASTM D 5293	cP	5600 @ -20 °C

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

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

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.

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



SAMIC PRIMAL TOPAZ SL series

Samic Primal Topaz	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

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.

- API SL, SJ, SG, SF, CF, CD
- 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	5.8	5.8
Phosphorous	ASTM D 4951	% wt	0.078	0.078
CCS Viscosity	ASTM D 5293	cP	6020 @ -15 °C	6060 @ -15 °C

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.

- 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

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.

- 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 Marvel Jade 4T	Test Method	Units	10W-30	10W-40	10W-60
Density @ 15 °C	ASTM D 4052	gm/cc	0.888	0.870	0.875
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.30	22.50
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	95	175.7
Viscosity Index	ASTM D 2270	-	156	155	155
Pour Point	ASTM D 97	°C	-36	-36	-36
Flash Point (COC)	ASTM D 92	°C	215	230	236
Total Base Number	ASTM D 2896	mg KOH/g	8.2	8.2	8.2
Phosphorous	ASTM D 4951	% wt	0.1	0.1	0.1
CCS Viscosity	ASTM D 5293	cP	5550 @ -25 °C	5650 @ -25 °C	6050 @ -25 °C

- API SN, SM, SL, SJ, CF
- JASO MA-2
- JASO 4T Clutch Performance



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 Primal Jade 4T	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
- JASO MA-2
- JASO 4T Clutch Performance



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 Marvel Topaz 4T	Test Method	Units	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868
Viscosity @ 100 °C	ASTM D 445	cSt	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	90
Viscosity Index	ASTM D 2270	-	165
Pour Point	ASTM D 97	°C	-36
Flash Point (COC)	ASTM D 92	°C	220
Total Base Number	ASTM D 2896	mg KOH/g	7.8
Phosphorous	ASTM D 4951	% wt	0.098
CCS Viscosity	ASTM D 5293	cP	5650 @ -25 °C

- API SL, SJ, CF
- JASO MA
- JASO 4T Clutch Performance



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 Primal Coral 4T	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	6.2	6.2
Phosphorous	ASTM D 4951	% wt	0.098	0.098
CCS Viscosity	ASTM D 5293	cP	6020 @ -15 °C	6060 @ -15 °C

- API SJ, CF
- JASO MA
- JASO 4T Clutch performance



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 base oils 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	Test Method	Units	2T TC-W3
Specific Gravity	ASTM D 1298	-	0.878
Viscosity @ 100 °C	ASTM D 445	cSt	8.50
Viscosity @ 40 °C	ASTM D 445	cSt	51.9
Viscosity Index	ASTM D 2270	-	140
Pour Point	ASTM D 97	°C	-36
Flash Point (COC)	ASTM D 92	°C	98
Base Number (TBN)	ASTM D 2896	mg KOH/g	8.5
Sulfated Ash	ASTM D 874	% wt	<0.001

- NMMA TC-W, TC-WII, TC-W3
- API TC



SAMIC TWIN TURBO 2T OIL

Samic Twin Turbo	Test Method	Units	2T Oil
Density @ 15 °C	ASTM D 4052	gm/cc	0.866
Viscosity @ 100 °C	ASTM D 445	cSt	7.8
Viscosity @ 40 °C	ASTM D 445	cSt	47.15
Viscosity Index	ASTM D 2270	-	135
Pour Point	ASTM D 97	°C	-24
Flash Point (COC)	ASTM D 92	°C	96
Sulfated Ash	ASTM D 874	% wt	0.09

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 base oils 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.

- API TC
- JASO FB, FC, FD
- ISO L-EGD

PASSENGER CAR MOTOR OIL

4-STROKE / 2-STROKE ENGINE OIL



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 durability enabling longer drain transmissions. It is designed specifically to be used as a service-fill 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 EDG 6-speed
 • Chrysler Powershift 6-Speed • Ford Powershift 6-Speed

• Mitsubishi TC-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.

Samic Autotransyn	Test Method	Units	DEXRON VI
Color	Visual	-	Red
Density @ 15 °C	ASTM D 4052	gm/cc	0.850
Viscosity @ 100 °C	ASTM D 445	cSt	6.05
Viscosity @ 40 °C	ASTM D 445	cSt	30.5
Viscosity Index	ASTM D 2270	-	150
Pour Point	ASTM D 97	°C	-15
Flash Point (COC)	ASTM D 92	°C	205
Brookfield Viscosity @-40°C	ASTM D 5293	cP	12,000

• General Motors DEXRON-VI • BMW JWS 3309 (F-V)
 • JASO 1A-LV / Peugeot ZF 4HP20 • Mazda ATF-D-II/M-V/M-1
 • Ford Mercon LV • ZF TE-ML 09X and all 3 & 4 speed transmission

• Volvo CE 97340 • Aisin Warner JWS 3309 (F-V) & JWS 3324 (WS)
 • CAT TO-2 • Mitsubishi DiaQueen SPV • MB 236.12/236.9
 • Hyundai NWS 9638/ Acura ATF-Z1 • Allison C-3 & C-4
 • Chrysler ATF+2, +3 (MS 7176E), +4 (MS 9602) • ZF M-1375.4 (6HP)
 • Audi 5 HP (171141) (ZF 5 HP 18FL/18FL/24A) • Honda ATF DW-1
 • Porsche T-V (JWS 3309) / Nissan Matic S • MB 236.12 & 236.14
 • Jaguar ATF 340J/JLM2038 • Toyota T-WS (JWS 3324)
 • Vickers M2950-S, I-286-S • Hyundai / Kia SP-IV



SAMIC AUTOTRANSYN CVTF

SAMIC AUTOTRANSYN 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 is also suitable in most OEMs 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.

Samic Autotransyn	Test Method	Units	CVTF
Color	Visual	-	Red
Density @ 15 °C	ASTM D 4052	gm/cc	0.850
Viscosity @ 100 °C	ASTM D 445	cSt	7.15
Viscosity @ 40 °C	ASTM D 445	cSt	34.7
Viscosity Index	ASTM D 2270	-	175
Pour Point	ASTM D 97	°C	-48
Flash Point (COC)	ASTM D 92	°C	205
Brookfield Viscosity @-40°C	ASTM D 5293	cP	10,000

• Daihatsu (Amix CVTF-DC / Amix CVTF DFE) / Honda (HMVF, HCF-2)
 • 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-CVT/CVTF I-Gen2™) Jaguar ATF 3403 JLM20238

• Audi/VW (TL 52180; G 052 180; G 052 516)
 • BMW/Mini Cooper 8322 0 156 276/8322 0 429 154 (E2L 799)
 • Hyundai Genuine CVTF/Mazda CVTF 3320
 • Hyundai / Kia (SP-III, SP CVT II) /Punch (ZL 799A) 0 OCFT)
 • JASO 1A /Shell Green 1V /Nissan NS-1/NS-2/NS-3
 • Mercedes-Benz CVT28 (235,20) /Toyota/Lexus T-CP/TF+
 • Mitsubishi (CVTF-11/CVTF-DiaQueen J1/DiaQueen J-4/Sp-III)
 • Subaru (NS 2 / Lineartronic CVTF/CVTF/K04250710/CV30/e-CVTF)
 • Suzuki (1C / NS 2 / CVT Green 1 / CVTF Green/CVTF 3320)



SAMIC AUTOTRANS DX III

SAMIC AUTOTRANS DX III 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.

Samic Autotrans	Test Method	Units	DX III
Color	Visual	-	Red
Density @ 15 °C	ASTM D 4052	gm/cc	0.856
Viscosity @ 100 °C	ASTM D 445	cSt	7.4
Viscosity @ 40 °C	ASTM D 445	cSt	35.8
Viscosity Index	ASTM D 2270	-	178
Pour Point	ASTM D 97	°C	-51
Flash Point (COC)	ASTM D 92	°C	202

• GM Dexron III, Type A & Ford Mercon • MB 236.1/5/6/7/9
 • Voith Turbo 55.6335 (G607 list) & Volvo 97340 • Allison C-4 & CAT TO-2
 • ZF TE-ML 03D/40/119A/118/14A/17C • MAN 339 21 & V1 / 339 22 & V2



SAMIC AUTOTRANS DX II

SAMIC AUTOTRANS DX II 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.

Samic Autotrans	Test Method	Units	DX II
Color	Visual	-	Red
Density @ 15 °C	ASTM D 4052	gm/cc	0.865
Viscosity @ 100 °C	ASTM D 445	cSt	7.2
Viscosity @ 40 °C	ASTM D 445	cSt	37.5
Viscosity Index	ASTM D 2270	-	160
Pour Point	ASTM D 97	°C	-45
Flash Point (COC)	ASTM D 92	°C	202

• GM Dexron II, Type A & Ford • ZF TE-ML 02F/AD/09/11A/118/14A/17C
 • Allison C-4 / CAT TO-2 • MAN 339 21 & V1
 • 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.

Samic Autotrans	Test Method	Units	Type A
Color	Visual	-	Red
Density @ 15 °C	ASTM D 4052	gm/cc	0.876
Viscosity @ 100 °C	ASTM D 445	cSt	7.6
Viscosity @ 40 °C	ASTM D 445	cSt	41.3
Viscosity Index	ASTM D 2270	-	155
Pour Point	ASTM D 97	°C	-45
Flash Point (COC)	ASTM D 92	°C	202

• 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 over, these oils are specially engineered for fuel economy manual transmissions in commercial vehicles.

Samic Syn Synchron EP	Test Method	Units	75W80
Density @ 15 °C	ASTM D 4052	gm/cc	0.850
Viscosity @ 40 °C	ASTM D 445	cSt	56.5
Viscosity @ 100 °C	ASTM D 445	cSt	9.5
Viscosity Index	ASTM D 2270	-	152
Pour Point	ASTM D 97	°C	-42
Flash Point (COC)	ASTM D 92	°C	220
Copper Strip Corrosion	ASTM D 130	-	1A
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0
Phosphorus	ASTM D 4951	%wt	0.026

• API GL-4
 • SAE J2360
 • MB 235-28
 • MAN 341 Type E-3/2-4
 • ZF TE ML 01L, 02L, 16K
 • Volvo 97305



SAMIC SYN SYNCHRO HD 80W-140 GL-5

SAMIC SYN SYNCHRO HD 80W/140 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.

Samic Syn Synchron HD	Test Method	Units	80W140
Density @ 15 °C	ASTM D 4052	gm/cc	0.89
Viscosity @ 40 °C	ASTM D 445	cSt	254
Viscosity @ 100 °C	ASTM D 445	cSt	25.6
Viscosity Index	ASTM D 2270	-	130
Pour Point	ASTM D 97	°C	-33
Flash Point (COC)	ASTM D 92	°C	242
Copper Strip Corrosion	ASTM D 130	-	1B
Foam Seq I,II,III	ASTM D 892	ml/ml	20/0
Phosphorus	ASTM D 4951	%wt	0.055

• API GL-5/MT-1
 • SAE J2360
 • MIL-PRF-2105E
 • Mack GO-J
 • Scania STO 1.0
 • Meritor 0-76-N
 • ZF TE ML 05A, 12M, 16F, 21A



SAMIC SYN SYNCHRO HD 75W-90 GL-5

SAMIC SYN SYNCHRO HD 75W/90 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.

Samic Syn Synchron HD	Test Method	Units	75W90	75W90	85W140
Density @ 15 °C	ASTM D 4052	gm/cc	0.87	0.87	0.87
Viscosity @ 40 °C	ASTM D 445	cSt	97.25	97.25	97.25
Viscosity @ 100 °C	ASTM D 445	cSt	14.5	14.5	14.5
Viscosity Index	ASTM D 2270	-	155	155	155
Pour Point	ASTM D 97	°C	-39	-39	-39
Flash Point (COC)	ASTM D 92	°C	222	222	222
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	10/0	10/0
Phosphorus	ASTM D 4951	%wt	0.055	0.055	0.055

• API GL-5/MT-1
 • SAE J2360
 • MIL-PRF-2105E
 • Mack GO-J
 • Scania STO 1.0
 • MAN 342 M2
 • ZF TE ML 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.

Samic Synchron HD	Test Method	Units	90	140	80W90	85W90	85W140
Density @ 15 °C	ASTM D 4052	gm/cc	0.890	0.910	0.888	0.890	0.908
Viscosity @ 40 °C	ASTM D 445	cSt	145	447	146	150	356
Viscosity @ 100 °C	ASTM D 445	cSt	14.3	30.0	14.7	17.4	25.6
Viscosity Index	ASTM D 2270	-	96	95	100	97	95
Pour Point	ASTM D 97	°C	-12	-9	-24	-24	-15
Flash Point (COC)	ASTM D 92	°C	240	260	230	236	248
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	20/0	10/0	10/0	20/0
Phosphorus	ASTM D 4951	%wt	0.055	0.055	0.055	0.055	0.055

• API GL-5
 • MIL-L-21850 (U.S Military Specification)
 • MAN 342 M2
 • ZF TE ML 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.

Samic Synchron EP	Test Method	Units	90	140	80W90	85W90	85W140
Density @ 15 °C	ASTM D 4052	gm/cc	0.890	0.910	0.888	0.890	0.908
Viscosity @ 40 °C	ASTM D 445	cSt	145	447	146	150	356
Viscosity @ 100 °C	ASTM D 445	cSt	14.3	30.0	14.7	17.4	25.6
Viscosity Index	ASTM D 2270	-	96	95	100	97	95
Pour Point	ASTM D 97	°C	-12	-9	-24	-24	-15
Flash Point (COC)	ASTM D 92	°C	240	260	230	236	248
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	20/0	10/0	10/0	20/0
Phosphorus	ASTM D 4951	%wt	0.026	0.026	0.026	0.026	0.026

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

AUTOMATIC TRANSMISSION FLUID

MANUAL TRANSMISSION OIL



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

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 Mercury	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.865	0.870
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.4
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	96
Viscosity Index	ASTM D 2270	-	155	155
Pour Point	ASTM D 97	°C	-39	-39
Flash Point (COC)	ASTM D 92	°C	215	225
Total Base Number	ASTM D 2896	mg KOH/g	9.6	9.6
Sulfated Ash	ASTM D 874	% wt	0.9	0.9
CCS Viscosity	ASTM D 5293	cP	6050 @ -25 °C	6200 @ -25 °C

- API CK-4, CH-4, CH-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- ACEA E9/E7/E6
- MTU Oil Category 2.1
- MAN 3275/3575/ Renault VI RLD-2
- Detroit Diesel Power Guard 93K218
- CAT ECF-3
- MB 228.31
- VOLVO VDS-4.5
- Deutz DQC III-10 LA/ASO DH-2
- MAN 3275/3575



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 Platinum	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.875
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	14.4
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	96
Viscosity Index	ASTM D 2270	-	155	155
Pour Point	ASTM D 97	°C	-39	-39
Flash Point (COC)	ASTM D 92	°C	215	236
Total Base Number	ASTM D 2896	mg KOH/g	10.4	10.4
Sulfated Ash	ASTM D 874	% wt	1.0	1.0
CCS Viscosity	ASTM D 5293	cP	6050 @ -25 °C	6200 @ -25 °C

- API CJ-4, CH-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- ACEA E9/E7
- MTU Oil Category 2.1
- Detroit Diesel Power Guard 93K218
- CAT ECF-3
- MB 228.31
- VOLVO VDS-4.5
- Deutz DQC III-10 LA/ASO DH-2
- MAN 3275/3575



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 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.

Samic Maxima Gold	Test Method	Units	10W-30	10W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.868	0.874
Viscosity @ 100 °C	ASTM D 445	cSt	10.4	15.5
Viscosity @ 40 °C	ASTM D 445	cSt	62.6	106
Viscosity Index	ASTM D 2270	-	155	155
Pour Point	ASTM D 97	°C	-39	-39
Flash Point (COC)	ASTM D 92	°C	215	220
Total Base Number	ASTM D 2896	mg KOH/g	12.4	12.4
Sulfated Ash	ASTM D 874	% wt	1.3	1.3
CCS Viscosity	ASTM D 5293	cP	6050 @ -25 °C	6200 @ -25 °C

- API CI-4, CH-4, CH-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- ACEA E7/E5/E3/A3/B4
- CUMMINS CES 20076/7/20078
- MTU Oil Category 2
- CAT ECF-1a, ECF-2
- ACEA E2
- Detroit Diesel Power Guard 93K218
- MAN 3275/3575/ Renault VI RLD-4
- VOLVO VDS-4.5
- Deutz DQC III-10 LA/ASO DH-2
- MAN 3275/3575



SAMIC OPTIMA MERCURY 15W40 CK-4/SN series

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 Mercury	Test Method	Units	15W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.875
Viscosity @ 100 °C	ASTM D 445	cSt	15.4
Viscosity @ 40 °C	ASTM D 445	cSt	120
Viscosity Index	ASTM D 2270	-	134
Pour Point	ASTM D 97	°C	-33
Flash Point (COC)	ASTM D 92	°C	230
Total Base Number	ASTM D 2896	mg KOH/g	9.6
Sulfated Ash	ASTM D 874	% wt	0.9
CCS Viscosity	ASTM D 5293	cP	6500 @ -20 °C

- API CK-4, CH-4, CH-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- ACEA E9/E7/E6
- MTU Oil Category 2.1
- MAN 3275/3575/ Renault VI RLD-4
- Detroit Diesel Power Guard 93K222
- CAT ECF-3
- MB 228.31
- VOLVO VDS-4.5
- Deutz DQC III-10 LA/ASO DH-2
- MAN 3275/3575



SAMIC OPTIMA PLATINUM 15W40 CJ-4/SN series

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 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 Optima Platinum	Test Method	Units	15W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.884
Viscosity @ 100 °C	ASTM D 445	cSt	15.4
Viscosity @ 40 °C	ASTM D 445	cSt	120
Viscosity Index	ASTM D 2270	-	134
Pour Point	ASTM D 97	°C	-33
Flash Point (COC)	ASTM D 92	°C	230
Total Base Number	ASTM D 2896	mg KOH/g	9.2
Sulfated Ash	ASTM D 874	% wt	0.9
CCS Viscosity	ASTM D 5293	cP	6000 @ -20 °C

- API CJ-4, CH-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- ACEA E9/E7/ CAT ECF-3
- MTU Oil Category 2.1/MB 228.31
- Detroit Diesel Power Guard 93K218
- CUMMINS CES 20081
- MACK EO-O Premium Plus /VOLVO-VDS-4
- CAT ECF-3
- MB 228.31
- VOLVO VDS-4.5
- Deutz DQC III-10 LA/ASO DH-2
- MAN 3275/3575



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.

Samic Optima Gold	Test Method	Units	15W-40	15W-50
Density @ 15 °C	ASTM D 4052	gm/cc	0.884	0.884
Viscosity @ 100 °C	ASTM D 445	cSt	15.4	18.5
Viscosity @ 40 °C	ASTM D 445	cSt	120	155
Viscosity Index	ASTM D 2270	-	134	134
Pour Point	ASTM D 97	°C	-33	-33
Flash Point (COC)	ASTM D 92	°C	230	230
Total Base Number	ASTM D 2896	mg KOH/g	11.4	11.4
Sulfated Ash	ASTM D 874	% wt	1.2	1.2
CCS Viscosity	ASTM D 5293	cP	6000 @ -20 °C	6000 @ -20 °C

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

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.

Samic Optima Silver	Test Method	Units	15W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.884
Viscosity @ 100 °C	ASTM D 445	cSt	15.4
Viscosity @ 40 °C	ASTM D 445	cSt	120
Viscosity Index	ASTM D 2270	-	134
Pour Point	ASTM D 97	°C	-33
Flash Point (COC)	ASTM D 92	°C	230
Total Base Number	ASTM D 2896	mg KOH/g	10.0
CCS Viscosity	ASTM D 5293	cP	6000 @ -20 °C

- API CH-4, CH-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- 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 III-05
- Renault RD-2
- MB 228.3



SAMIC OPTIMA FERROUS 15W-40 CF-4 series

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.

Samic Optima Ferrous	Test Method	Units	15W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.884
Viscosity @ 100 °C	ASTM D 445	cSt	15.4
Viscosity @ 40 °C	ASTM D 445	cSt	120
Viscosity Index	ASTM D 2270	-	134
Pour Point	ASTM D 97	°C	-30
Flash Point (COC)	ASTM D 92	°C	230
Total Base Number	ASTM D 2896	mg KOH/g	8.0
CCS Viscosity	ASTM D 5293	cP	6000 @ -20 °C

- API CF-4, CF, SJ
- ACEA E2
- MTU Oil Category 1
- MAN 270/271
- VOLVO VDS
- Deutz DQC III-05
- MB 228.0/1



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.

Samic Nova Gold CI-4	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	21.4
Viscosity @ 40 °C	ASTM D 445	cSt	107	182
Viscosity Index	ASTM D 2270	-	137	137
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	11.5	11.5
Sulfated Ash	ASTM D 874	% wt	1.2	1.2
CCS Viscosity	ASTM D 5293	cP	6020 @ -15 °C	6060 @ -15 °C

- API CI-4, CH-4, CG-4, CF-4, CF, SL, SJ
- ACEA E7/A3/B4
- CAT ECF-1a, ECF-2
- MTU Oil Category 2
- MAN M3275
- VOLVO VDS-3
- Renault VI RLD-2
- MACK EO-N
- Detroit Diesel 93K215
- CUMMINS CES 20076/7/20078
- Deutz DQC III-05
- Global DHD-1
- MB 228.3/MB 229.1
- MACK EO-N



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.

Samic Nova Ferrous	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	21.4
Viscosity @ 40 °C	ASTM D 445	cSt	107	182
Viscosity Index	ASTM D 2270	-	137	137
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	8.0	8.0
CCS Viscosity	ASTM D 5293	cP	6020 @ -15 °C	6020 @ -15 °C

- API CF-4, CF, SJ
- ACEA E2
- MTU Oil Category-1
- MAN 270/271
- VOLVO VDS
- Deutz DQC III-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 provides excellent protection in engines, against high temperature piston deposits, wear, corrosion and foaming under severe operating conditions.

Samic Dynamo 9000	Test Method	Units	10W	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.880	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	5.6	11.6	15.4	20.2
Viscosity @ 40 °C	ASTM D 445	cSt	32	102	158	234
Viscosity Index	ASTM D 2270	-	114	100	99	99
Pour Point	ASTM D 97	°C	-33	-18	-15	-12
Flash Point (COC)	ASTM D 92	°C	214	230	236	242
Sulfated Ash	ASTM D 874	Wt%	0.95	0.95	0.95	0.95
Total Base Number	ASTM D 2896	mg KOH/g	9.6	9.6	9.6	9.6

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

DIESEL ENGINE OIL

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	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	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 Glysantin 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 O C) & 50% (-37 O 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 - Glysantin 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 445	mm ² /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	

Product Name	Auto Cool ELC	Water	Freeze Protection, acc. ASTM D 1177
Auto Cool ELC -18 °C	33%	67%	-18 °C
Auto Cool ELC -37 °C	50%	50%	-37 °C

- MAN 324-SNF
- Mercedes-Benz DBL 7700.30, page 325.3
- MTU MTL 5048
- Porsche Carrera, Boxster, Cayenne
- Scania T1 02-98 0813 T/B/M sv
- VW/Audi/Seat/Skoda/Bentley/Lamborghini: TL 774-D/F

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 Glysantin 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 O C) & 50% (-37 O 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 - Glysantin G48	
Density @ 20 °C	ASTM D 4052	gm/cc	1.122 - 1.125	
Color	ASTM D 1500	--	Blue	
Viscosity @ 20 °C	ASTM 445	mm ² /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	

Product Name	Auto Cool LLC	Water	Freeze Protection, acc. ASTM D 1177
Auto Cool LLC -18 °C	33%	67%	-18 °C
Auto Cool LLC -37 °C	50%	50%	-37 °C

- MAN 324-NE
- Mercedes-Benz DBL 7700.20, page 325.0
- MTU MTL 5048
- Porsche Carrera, Boxster, Cayenne
- BMW M 600 69.0
- VW/Audi/Seat/Skoda/Bentley/Lamborghini: TL 774-C
- Opel/GM B 040 0240
- Deutz H-LV 0161 0188
- Saab 69011599
- Liebherr TLV 035, TLV 231009 A
- Jenbacher TANr. 1100 0201
- 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
- FMVSS 116 DOT 3
- ISO 4925 Class 3 & 4
- SAE J-1703



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 woks satisfactorily for all types of processes involving fine carbon steels.

Samic Spray Cut Oil	Test Method	Units	Water Solubility Cutting Oil	
Color	ASTM D 1500	--	4.0	
Appearance	Visual	--	Brown & Clear	
Specific gravity @ 60/60 °F	ASTM D 4052	gm/cc	0.872	
Viscosity @ 40 °C	ASTM D 445	cSt	40.5	
pH value (5% solution in distilled H ₂ O)	E70	--	9.0 max.	
Emulsion stability, 24 hour	--	--	Slight ring - no oil trace	
a. 5% in distilled water	ASTM D 3707	--	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 4951	%wt	0.35	

- 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.

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.

Samic Coast Guard	Test Method	Units	1530	1540	1550
SAE Grade	--	--	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	14.6	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	103	145	218
Viscosity Index	ASTM D 2270	--	100	99	99
Pour Point	ASTM D 97	°C	-9	-9	-9
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	15	15	15
Sulphated Ash	ASTM D 874	wt%	2.1	2.1	2.1

- 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.

Samic Coast Guard	Test Method	Units	2030	2040	2050
SAE Grade	--	--	30	40	50
Density @ 15 °C	ASTM D 4052	gm/cc	0.892	0.900	0.904
Viscosity @ 100 °C	ASTM D 445	cSt	10.8	15.8	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	94.0	164	218
Viscosity Index	ASTM D 2270	--	99	99	99
Pour Point	ASTM D 97	°C	-21	-18	-15
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	20	20	20
Sulphated Ash	ASTM D 874	wt%	2.25	2.25	2.25

- 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-fueled 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.

Samic Coast Guard	Test Method	Units	3030	3040	3050
SAE Grade	--	--	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	14.6	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	103	145	218
Viscosity Index	ASTM D 2270	--	100	99	99
Pour Point	ASTM D 97	°C	-9	-9	-6
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	30	30	30
Sulphated Ash	ASTM D 874	wt%	3.7	3.7	3.7

- 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-fueled 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.

Samic Coast Guard	Test Method	Units	4030	4040	4050
SAE Grade	--	--	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	14.6	19.2
Viscosity @ 40 °C	ASTM D 445	cSt	103	145	218
Viscosity Index	ASTM D 2270	--	100	99	99
Pour Point	ASTM D 97	°C	-9	-9	-6
Flash Point (COC)	ASTM D 92	°C	245	268	276
Total Base Number	ASTM D 2896	mg KOH/g	40	40	40
Sulphated Ash	ASTM D 874	wt%	4.8	4.8	4.8

- API CF



SAMIC COAST GUARD MDCL 7050

Samic Coast Guard MDCL 7050 is extra high performance 70 TBN marine diesel engine 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.

Samic Coast Guard MDCL	Test Method	Units	7050	
SAE Grade	--	--	50	
Density @ 15 °C	ASTM D 4052	gm/cc	0.935	
Viscosity @ 100 °C	ASTM D 445	cSt	20.4	
Viscosity @ 40 °C	ASTM D 445	cSt	240.9	
Viscosity Index	ASTM D 2270	--	99	
Pour Point	ASTM D 97	°C	-9	
Flash Point (COC)	ASTM D 92	°C	276	
Total Base Number	ASTM D 2896	mg KOH/g	70	

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.

Samic Coast Guard SO	Test Method	Units	630		640	
SAE Grade	--	--	30		40	
Density @ 15 °C	ASTM D 4052	gm/cc	0.892		0.900	
Viscosity @ 100 °C	ASTM D 445	cSt	11.6		14.6	
Viscosity @ 40 °C	ASTM D 445	cSt	103		145	
Viscosity Index	ASTM D 2270	--	100		99	
Pour Point	ASTM D 97	°C	-21		-21	
Flash Point (COC)	ASTM D 92	°C	245		268	
Total Base Number	ASTM D 2896	mg KOH/g	6		6	
Sulphated Ash	ASTM D 874	wt%	0.8		0.8	

- API CD
- US Military MIL-L-2104C

MARINE ENGINE OILS



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.

Samic Hydra Hyd HVI	Test Method	Units	15	22	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	15	22	32	46	68	100	150
Density @ 15°C	ASTM D 4052	gm/cc	0.845	0.864	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40°C	ASTM D 445	cSt	15.6	22.9	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100°C	ASTM D 445	cSt	3.99	5.12	6.46	8.41	11.27	13.21	16.85
Viscosity Index	ASTM D 2270	-	161	160	156	156	128	128	120
Pour Point	ASTM D 97	°C	-39	-39	-36	-36	-33	-33	-33
Flash Point (COC)	ASTM D 93	°C	202	204	224	230	234	246	252
Copper Strip Corrosion	ASTM D 130	-	1A	1A	1A	1A	1A	1A	1A
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
Demulsibility, 40/40/0	ASTM D 1401	min	10	10	15	20	20	25	30
TAN, mg KOH/g	ASTM D 2896	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6

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.

Samic Hydra Hyd AW	Test Method	Units	15	22	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	15	22	32	46	68	100	150
Density @ 15°C	ASTM D 4052	gm/cc	0.845	0.864	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40°C	ASTM D 445	cSt	15.6	22.9	32.4	46.8	68.9	100.8	150.2
Viscosity @ 100°C	ASTM D 445	cSt	3.99	5.12	6.46	8.41	11.27	13.21	16.85
Viscosity Index	ASTM D 2270	-	100	98	98	98	95	95	95
Pour Point	ASTM D 97	°C	-39	-30	-27	-27	-21	-21	-15
Flash Point (COC)	ASTM D 92	°C	202	204	224	230	234	246	252
Copper Strip Corrosion	ASTM D 130	-	1A	1B	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 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.

Samic Indus Gear EP	Test Method	Units	46	68	100	150	220	320	460	680
AGMA 9005	-	-	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP	-	-
ISO Viscosity Grade	ISO 3448	-	46	68	100	150	220	320	460	680
Density @ 15°C	ASTM D 4052	gm/cc	0.878	0.880	0.887	0.894	0.898	0.900	0.904	0.910
Viscosity @ 40°C	ASTM D 445	cSt	46.8	68.9	100.8	150.2	220.5	320.9	460.8	680.5
Viscosity @ 100°C	ASTM D 445	cSt	6.78	8.72	11.15	14.56	18.75	23.95	30.45	37.85
Viscosity Index	ASTM D 2270	-	98	98	95	95	95	95	95	92
Pour Point	ASTM D 97	°C	-27	-27	-24	-24	-24	-19	-12	-12
Flash Point (COC)	ASTM D 92	°C	216	218	226	230	248	248	256	262
FZS Scuff Fall Stages	ASTM D 90	-	12*	12*	12*	12*	12*	12*	12*	12*
Tinctor Oil Load	ASTM D 2670	lb/sgf	65	65	65	75	75	75	75	75
Cu Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B	1B	1B	1B
Rust Test-Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Foam Seq. I, II, III	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

SAMIC ROTA R series

SAMIC ROTA R series are air compressor performance air compressor oils formulated with high quality base stocks and advanced additive technology to provide exceptional equipment protection and reliability for compressors operating under mild to severe conditions. They are designed to meet or exceed the requirements of DIN 51506 VD-1 standards and demonstrate high resistance to oxidation and deposit formation.

Samic Rota R	Test Method	Units	32	46	68	100	150
ISO Viscosity Grade	ISO 3448	-	32	46 <td>68 <td>100</td> <td>150</td> </td>	68 <td>100</td> <td>150</td>	100	150
Density @ 15°C	ASTM D 4052	gm/cc	0.870	0.878	0.880	0.887	0.894
Viscosity @ 40°C	ASTM D 445	cSt	32.4	46.8	68.9	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	-	98	98	98	95	95
Sulfated Ash	ASTM D 874	wt%	<0.01	<0.01	<0.01	<0.01	<0.01
Pour Point	ASTM D 97	°C	-27	-27	-21	-21	-18
Flash Point (COC)	ASTM D 92	°C	224	230	234	246	252
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass	Pass	Pass
Foam Seq. I, II, III	ASTM D 892	ml/ml	10/0	10/0	10/0	10/0	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-gear 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.

Samic Rota T	Test Method	Units	32	46	68
ISO Viscosity Grade	ISO 3448	-	32	46	68
Density @ 15°C	ASTM D 4052	gm/cc	0.870	0.872	0.875
Viscosity @ 40°C	ASTM D 445	cSt	32.4	46.5	68.8
Viscosity @ 100°C	ASTM D 445	cSt	5.62	7.10	9.16
Viscosity Index	ASTM D 2270	-	112	110	108
Pour Point	ASTM D 97	°C	-39	-39	-37
Flash Point (COC)	ASTM D 92	°C	224	230	234
TOST, Hours to 2 NN	ASTM D 943	Hours	>10,000	>10,000	>10,000
Copper-Strip Corrosion	ASTM D 130	-	1A	1A	1A
Rust Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass
Air Release, 50°C	ASTM D 3427	mins	3	4	4
Foam Seq. II, III	ASTM D 892	ml/ml	0/0	0/0	10/0
Demulsibility, 40/40/0	ASTM D 1401	min	10	10	10

SAMIC THERM FLUID series

SAMIC THERM FLUID series are high performance heat transfer oils formulated with highly refined base stocks, intended for use in closed and indirect heating installations. They provide exceptional resistance to thermal cracking and chemical oxidation, thus flash point of these oils will not decrease significantly in service. Moreover, they are thermally stable and are capable of an extremely long service oil life, without deposit formation or increase in viscosity.

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	8.72
Viscosity Index	ASTM D 2270	-	98	98	98
Pour Point	ASTM D 97	°C	-12	-12	-21
Flash Point (COC)	ASTM D 92	°C	224	230	234
Fire Point (COC)	ASTM D 93	°C	255	260	268
Miner. Content Residue	ASTM D 4350	%wt	0.02 (max)	0.02 (max)	0.05 (max)
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B
Blut Characteristics Proc B	ASTM D 665	-	Pass	Pass	Pass
Foam Seq. II, III	ASTM D 892	ml/ml	10/0	10/0	10/0

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 HVP type
- Denison HF-0 (T6H20C)
- Cincinnati Machine P68, P69, P70
- ISO CG/34 HV
- VICKERS M-29505, I-286
- WICKERS 35VQ25, 104C

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)
- ISO 11158 (HM Fluids)
- VICKERS M-29505, I-286

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 51517-3 (CLP)
- ISO 6743-6 & ISO 12925-1 (CK/CKD)
- US Steel 224
- David Brown S1, S3, 301
- Fleuder BA 7300, table A

SAMIC ROTA R series are air compressor performance air compressor oils formulated with high quality base stocks and advanced additive technology to provide exceptional equipment protection and reliability for compressors operating under mild to severe conditions. They are designed to meet or exceed the requirements of DIN 51506 VD-1 standards and demonstrate high resistance to oxidation and deposit formation.

- DIN 51506 VD-1

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-gear 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 Requirement for Lubricants
- Siemens (non-EP)- TLV 901304, TLV 901305
- GE GEK 28413B/27070/325681/107395A/46506E
- British Standard BS489 & Solar ES9-224W
- Alstom Power Turbo HTGD90-117V0001X(non-EP)

SAMIC THERM FLUID series are high performance heat transfer oils formulated with highly refined base stocks, intended for use in closed and indirect heating installations. They provide exceptional resistance to thermal cracking and chemical oxidation, thus flash point of these oils will not decrease significantly in service. Moreover, they are thermally stable and are capable of an extremely long service oil life, without deposit formation or increase in viscosity.



SAMIC TRANS FLUID STOU/UTTO series

Samic Trans Fluid 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
- Jl Case/Case Int: MS 1204,6,7,9
- CNH MAT 3525,3526

Samic Trans Fluid STOU/UTTO	Test Method	Units	10W30	15W-40	20W-40
Density @ 15°C	ASTM D 4052	gm/cc	0.870	0.875	0.888
Viscosity @ 40°C	ASTM D 445	cSt	39	103	137
Viscosity @ 100°C	ASTM D 445	cSt	9.6	14.30	14.30
Viscosity Index	ASTM D 2270	-	146	142	136
Pour Point	ASTM D 97	°C	-39	-36	-33
Flash Point (COC)	ASTM D 92	°C	212	225	230
CS Viscosity	ASTM D 5293	°C	5550 @ -25 °C	6000 @ -20 °C	6020 @ -15 °C
Zinc	ASTM D 4951	%wt	0.12 (Min) - 0.19 (max)	0.12 (Min) - 0.19 (max)	0.12 (Min) - 0.19 (max)

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 press- ure hydraulic applications. It helps in maximizing the productivity in construction, quarrying and mining equipment operating under severe conditions.

Samic Trans HD

Samic Trans 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	214	230	242	242

- API GL-4/ Allison C-4
- Caterpillar TO-4/TO-4M/TO-2
- Komatsu KES 07,868,1
- Suitable Hydraulics and Wet Brakes
- Sperry Vickers/Eaton: M29505, I-280-5

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 00 & 0 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

- DIN 51502: KP2N-20
- ISO 6743-9: L-XBEBH-2/3

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 (MoS2) 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 for operating temperatures range from -20°C to 130°C, while Moly Grease EP 00 & 0 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			