New generation high-performance automotive oil

NISMO 0W-8

Kumho Nismo 0w-8,a durable synthetic engine oil specifically designed for Hybrid Electric Vehicles (H.E.V) and Plug-in Hybrid Electric Vehicles (P.H.E.V).These vehicles are designed to use SAE 0W-8 oil with low friction and low HTHS (High Temperature High Shear) viscosity (≥ 1.7 mPa.s), whether turbocharged or naturally aspirated, with direct or indirect injection. Kumho Nismo 0W-8 is specifically formulated for gasoline hybrid vehicles; for example, it is designed for fuel dilution, water emulsion, high number of start-stop events, and low oil temperature conditions.Kumho Nismo 0w-8 can also be used for gasoline engines requiring a viscosity class SAE 0W-8 lubricant or a "Fuel Economy" lubricant with a viscosity class of 8 (JASO GLV-1 standard).

PERFORMANCE

STANDARDS: JASO GLV-1
RECOMMENDATIONS: MAZDA, TOYOTA

The JASO GLV-1 standard is the first standard for ultra-low viscosity engine oils that are highly effective in fuel economy performance.
This standard is valid even when using gasoline containing up to 85% ethanol (E85) for engine protection.
The SAE 0W-8 viscosity grade significantly minimizes lubricant hydrodynamic friction and provides maximum fuel economy advantages, especially when the oil is cold.
This ultra-low viscosity grade also improves oil flow during operation, enabling faster oil pressure build-up, quicker engine speed increase, and faster attainment of operating temperature.
This environmentally friendly oil reduces fuel consumption and minimizes greenhouse gas (CO2) emissions.

PROPERTIES

Viscosity grade		0W-8
Density at 15°C	ASTM D4052	0.841
Viscosity at 40°C (104°F)	ASTM D445	26.3 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	5.3 mm²/s
Viscosity Index	ASTM D2270	169.0
Pour point	ASTM D97	-46.0 °C
Flash point	ASTM D92	230.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

NISMO HYBRID 0W-12

Kumho Nismo Hybrid 0w-12,it is a synthetic engine oil that effectively controls heat, resists oxidation, prevents oil degradation and sediment buildup, protecting parts and maintaining engine efficiency throughout the entire oil change interval.Maximum resistance to sludge formation caused by oil degradation. Effectively controls sludge formation throughout the engine, ensuring every part of the engine operates at maximum efficiency, maximizing power conversion and reducing emissions.

PERFORMANCE

STANDARDS: JASO GLV-1

The JASO GLV-1 standard is the first standard for ultra-low viscosity engine oils that are highly effective in fuel economy performance.
This standard is valid even when using gasoline containing up to 85% ethanol (E85) for engine protection.
The SAE 0W-12 viscosity grade significantly minimizes lubricant hydrodynamic friction and provides maximum fuel economy advantages, especially when the oil is cold.
This ultra-low viscosity grade also improves oil flow during operation, enabling faster oil pressure build-up, quicker engine speed increase, and faster attainment of operating temperature.

This environmentally friendly oil reduces fuel consumption and minimizes greenhouse gas (CO2) emissions.

PROPERTIES

Viscosity grade		0W-12
Density at 15°C	ASTM D4052	0.843
Viscosity at 40°C (104°F)	ASTM D445	27,7 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	5.8 mm²/s
Viscosity Index	ASTM D2270	173.0
Pour point	ASTM D97	-46.0 °C
Flash point	ASTM D92	230.0 °C

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New generation high-performance automotive oil

NISMO HYBRID 0W-16

Kumho Nismo Hybrid 0w-16,a durable synthetic engine oil specifically designed for Hybrid Electric Vehicles (H.E.V) and Plug-in Hybrid Electric Vehicles (P.H.E.V).These vehicles are designed to use SAE 0W-16 oil with low friction and low HTHS (High Temperature High Shear) viscosity (≥ 1.7 mPa.s), whether turbocharged or naturally aspirated, with direct or indirect injection. Kumho Nismo Hybrid 0W-16 is specifically formulated for gasoline hybrid vehicles; for example, it is designed for fuel dilution, water emulsion, high number of start-stop events, and low oil temperature conditions.Kumho Nismo Hybrid 0W-16 can also be used for gasoline engines requiring a lubricant with an SAE 0W-16 viscosity grade or a "Fuel Economy" lubricant with a viscosity grade of 16, conforming to API SP-RC, API SP and/or ILSAC GF-6B standards.

PERFORMANCE

STANDARDS: API SP/RC,ILSAC GF-6B
RECOMMENDATIONS: HONDA, SUZUKI, TOYOTA

The API SP standard is fully backward compatible with API SN requirements and all previous API standards. The API SPRC "Resource Protection" specification is even more demanding in terms of energy efficiency requirements.API SP lubricants provide exceptional oxidation resistance, better anti-deposition protection, improved engine cleanliness, anti-wear protection, and enhanced performance in cold temperatures, resulting in fuel economy savings throughout the oil's lifespan.In addition to backward compatibility, the API SP standard provides higher performance compared to API SN and API SN Plus. It provides greater protection against the LSPI phenomenon for turbocharged gasoline engines with fuel injection.This environmentally friendly type of oil reduces fuel consumption and minimizes greenhouse gas (CO2) emissions.

PROPERTIES

Viscosity grade	SAE J 300	0W-16
Density at 15°C	ASTM D4052	0.844
Viscosity at 40°C (104°F)	ASTM D445	40.5 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	7,7 mm²/s
Viscosity Index	ASTM D2270	159.0
Pour point	ASTM D97	-65.0 °C
Flash point	ASTM D92	226.0 °C

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New generation high-performance automotive oil

NISMO HYBRID 0W-20

Kumho Nismo Hybrid 0w-20,a durable synthetic engine oil specifically designed for Hybrid Electric Vehicles (H.E.V) and Plug-in Hybrid Electric Vehicles (P.H.E.V).These vehicles are designed to use SAE 0W-16 oil with low friction and low HTHS (High Temperature High Shear) viscosity (≥ 1.7 mPa.s), whether turbocharged or naturally aspirated, with direct or indirect injection. Kumho Nismo Hybrid 0W-20 is specifically formulated for gasoline hybrid vehicles; for example, it is designed for fuel dilution, water emulsion, high number of start-stop events, and low oil temperature conditions.Kumho Nismo Hybrid 0W-20 can also be used for gasoline engines requiring a lubricant with an SAE 0W-20 viscosity grade or a "Fuel Economy" lubricant with a viscosity grade of 16, conforming to API SP-RC, API SP and/or ILSAC GF-6B standards.

PERFORMANCE

STANDARDS: API SP/RC,ILSAC GF-6B
RECOMMENDATIONS: Dexos1 Gen3,FCA 955535-CR1,FCA MS 6395 , Ford WSS-M2C962-A,HONDA, SUZUKI, TOYOTA,LEXUS,KIA NISSAN,MAZDA,SUBARUAND CHINESE VEHICLES

The API SP standard is fully backward compatible with API SN requirements and all previous API standards. The API SP/RC "Resource Protection" specification is even more demanding in terms of energy efficiency requirements.API SP lubricants provide exceptional oxidation resistance, better anti-deposition protection, improved engine cleanliness, anti-wear protection, and enhanced performance in cold temperatures, resulting in fuel economy savings throughout the oil's lifespan.In addition to backward compatibility, the API SP standard provides higher performance compared to API SN and API SN Plus. It provides greater protection against the LSPI phenomenon for turbocharged gasoline engines with fuel injection.This environmentally friendly type of oil reduces fuel consumption and minimizes greenhouse gas (CO_2) emissions.

PROPERTIES

Viscosity grade		0W-20
Density at 15°C	ASTM D4052	0.848
Viscosity at 40°C (104°F)	ASTM D445	42.5 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	8,2 mm²/s
Viscosity Index	ASTM D2270	162.0
Pour point	ASTM D97	-42.0 °C
Flash point	ASTM D92	236.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

NISMO 5W-20

Kumho Nismo 5w-20, with its low viscosity and exceptional fluidity, significantly reduces wear and tear, resulting in fuel savings and lower CO2 emissions. The optimum additive package reduces soot and deposits, keeping the engine clean.Specifically developed to meet the demanding requirements of the latest GM Dexos1 Gen 3 specifications and ILSACGF-6 A standard, where fuel economy and CO2 reduction are important. Provides performance that meets the latest requirements of gasoline-powered USA and Asian passenger vehicles.

PERFORMANCE

STANDARDS: API SP/RC,ILSAC GF-6A

RECOMMENDATIONS: BUICK SFU, CHEVROLET SFU, CHRYSLER MS 10797, CHRYSLER MS 6395, CHRYSLER SFU, DODGE SFU, FIAT 9.55535-CR1, FIAT SFU, FORD SFU, FORD WSS-M2C930-A, FORD WSS-M2C945-A, FORD WSS-M2C946-A, FORD WSS-M2C947-A, FORD WSS-M2C962-A1, GM 6094M, GM Dexos1™ Gen 3, HYUNDAI SFU, KIA SFU, LANCIA SFU, LEXUS SFU, LINCOLN SFU,MAZDA SFU, MITSUBISHI SFU, SCION SFU, SSANG YONG SFU, TOYOTA SFU

Provides product optimization across a wide range of vehicle models from different brands. Ensures high engine performance. Extends the lifespan of exhaust emission systems. Contributes to lower emissions, thus protecting the environment. Keeps the engine clean by reducing dirt and deposit buildup. Helps save fuel.

PROPERTIES

Viscosity grade		5W-20
Density at 15°C	ASTM D4052	0.849
Viscosity at 40°C (104°F)	ASTM D445	50,3 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	8,87 mm²/s
Viscosity Index	ASTM D2270	167.0
Pour point	ASTM D97	-41.0 °C
Flash point	ASTM D92	239.0 °C

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New generation high-performance automotive oil

NISMO 5W-30

Kumho Nismo 5w-30, fuel Saving formula, is specifically designed for new vehicles with gasoline and hybrid gasoline engines, whether naturally aspirated or turbocharged, with indirect or direct injection, requiring "Fuel Saving" low friction and low HTHS (High Temperature High Shear) viscosity oil (≥ 2.9 mPa.s). It is suitable for modern gasoline engines requiring viscosity class 30 and fuel-saving lubricant (API SP and/or ILSAC GF-6A standard).

PERFORMANCE

STANDARDS: API SP,ILSAC GF-6A

The API SP standard is fully backward compatible with API SN requirements and all previous API standards. The API SPRC "Resource Protection" specification is even more demanding in terms of energy efficiency requirements.API SP lubricants provide exceptional oxidation resistance, better anti-deposition protection, improved engine cleanliness, anti-wear protection, and enhanced performance in cold temperatures, resulting in fuel economy savings throughout the oil's lifespan.In addition to backward compatibility, the API SP standard provides higher performance compared to API SN and API SN Plus. It provides greater protection against the LSPI phenomenon for turbocharged gasoline engines with fuel injection.This environmentally friendly type of oil reduces fuel consumption and minimizes greenhouse gas (CO2) emissions.

PROPERTIES

Viscosity grade		5W-30
Density at 1520°C	ASTM D4052	0.853
Viscosity at 40°C (104°F)	ASTM D445	62,3 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	9,87 mm²/s
Viscosity Index	ASTM D2270	164.0
Pour point	ASTM D97	-35.0 °C
Flash point	ASTM D92	232.0 °C

JAPAN

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New generation high-performance automotive oil

NISMO 5W-40

Kumho Nismo 5w-40, fully synthetic gasoline engine oil produced by adding high-performance additives to advanced synthetic base oils.It is suitable for demanding conditions that conventional engine oils cannot handle. It is recommended not to use any additives with this oil.

PERFORMANCE

STANDARDS: API SP/CF,ACEA C3

It provides excellent protection even under fast-paced, demanding, and high-temperature operating conditions. It maximizes fuel efficiency and keeps the engine clean. It slows down oil aging by enabling longer oil change intervals. It reduces internal engine friction, resulting in high engine power. It offers excellent oxidation resistance.

PROPERTIES

Viscosity grade		5W-40
Density at 1520°C	ASTM D4052	0.86
Viscosity at 40°C (104°F)	ASTM D445	77 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	12,8 mm²/s
Viscosity Index	ASTM D2270	168.0
Pour point	ASTM D97	-38.0 °C
Flash point	ASTM D92	232.0 °C

JAPAN

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New generation high-performance automotive oil

NISMO 10W-40

Kumho Nismo 10w-40, is a 100% synthetic racing engine oil developed for motorsport applications and other high-performance, demanding driving conditions. Formulated with high-quality synthetic base oils and additives, it ensures efficient operation of high-performance gasoline and diesel engines in racing cars, sports cars, and other powerful vehicles operating under harsh conditions. It effectively reduces internal friction to increase power output and boost horsepower and torque in extreme racing conditions. It is intended for use in naturally aspirated or turbocharged gasoline and diesel engines without a Diesel Particulate Filter (DPF). It is designed for racing cars, high-performance cars, sports cars, passenger cars, modified cars, and other vehicles where the SAE 10W-40 rating is recommended.

PERFORMANCE

STANDARDS: API SP/CF,ACEA A3/B4

It provides excellent protection even under fast-paced, demanding, and high-temperature operating conditions. It maximizes fuel efficiency and keeps the engine clean. It slows down oil aging by enabling longer oil change intervals. It reduces internal engine friction, resulting in high engine power. It offers excellent oxidation resistance.

PROPERTIES

Viscosity grade		10W-40
Density at 1520°C	ASTM D4052	0.86
Viscosity at 40°C (104°F)	ASTM D445	77 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	12,3 mm²/s
Viscosity Index	ASTM D2270	168.0
Pour point	ASTM D97	-38.0 °C
Flash point	ASTM D92	232.0 °C

JAPAN

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New generation high-performance automotive oil

DIAMI 0W-20

Kumho Diami 0w-20, significantly reduces wear and tear thanks to its low viscosity and exceptional fluidity, saving fuel and reducing CO2 emissions. The optimized additive package reduces soot and deposits and keeps the engine clean. Suitable for hybrid vehicles.

PERFORMANCE

STANDARDS: API SN+,ACEA C5,
RECOMMENDATIONS: VW 508.00/509.00,Porsche C20

This is a fuel-economy focused engine oil produced for new generation hybrid technology vehicles, light commercial and passenger vehicles with gasoline or diesel engines, capable of quickly responding to the instantaneous lubrication needs of start-stop technology. It can be used in vehicles with particulate filters that require ACEA C5 performance level engine oil.

PROPERTIES

Viscosity grade		0W-20
Density at 15°C	ASTM D4052	0.852
Viscosity at 40°C (104°F)	ASTM D445	47,4 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	9,11 mm²/s
Viscosity Index	ASTM D2270	176.0
Pour point	ASTM D97	-46.0 °C
Flash point	ASTM D92	235.0 °C

JAPAN

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New generation high-performance automotive oil

DIAMI 0W-30

Kumho Diami 0W-30, is a new generation engine oil formulated with synthetic base oils and special additives, designed for vehicles with emission reduction systems including DPF and SCR.It has been developed for new generation diesel and gasoline engines, for cars that require engine oil at ACEA C2 and FIAT 9.55535-DS1/9.55535-GS1 performance levels. It can also be used in vehicles that demand engine oil at ACEA C3 performance level.

PERFORMANCE

STANDARDS: API ACEA C2/C3,
RECOMMENDATIONS: Fiat 9.55535-DS1/GS1

Provides product optimization across a wide range of vehicle models from different brands. Ensures high engine performance. Extends the lifespan of exhaust emission systems. Contributes to lower emissions, thus protecting the environment. Keeps the engine clean by reducing dirt and deposit buildup. Helps save fuel.

PROPERTIES

Viscosity grade		0W-30
Density at 15°C	ASTM D4052	0.855
Viscosity at 40°C (104°F)	ASTM D445	55,8 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	11,7 mm²/s
Viscosity Index	ASTM D2270	177.0
Pour point	ASTM D97	-41.0 °C
Flash point	ASTM D92	236.0 °C

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New generation high-performance automotive oil

DIAMI 0W-40

Kumho Diami 0W-40, is a fully synthetic, low-friction engine oil. The combination of synthetic base oils, achieved using advanced additive technology, provides low viscosity and high shear stability for the engine oil, reliably preventing deposit formation, reducing friction loss in the engine, and providing optimum wear protection. Kumho Diami 0W-40 is intented for use in gasoline and diesel engines, including turbocharged and catalytic converter engines. It is also ideal for modern passenger cars with both charge-air cooled and non-charge-air cooled gasoline and non-turbocharged diesel engines.

PERFORMANCE

STANDARDS: API SN/CF, ACEA A3/B4,
RECOMMENDATIONS: BMW Longlife-98,Ford WSS-M2C 937-A,MB 229.3,Porsche A40,VW 502 00,VW 505 00

Provides product optimization across a wide range of vehicle models from different brands. Ensures high engine performance. Extends the lifespan of exhaust emission systems. Contributes to lower emissions, thus protecting the environment. Keeps the engine clean by reducing dirt and deposit buildup. Helps save fuel.

PROPERTIES

Viscosity grade		0W-40
Density at 15°C	ASTM D4052	0.858
Viscosity at 40°C (104°F)	ASTM D445	82,8 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	14,1 mm²/s
Viscosity Index	ASTM D2270	174.0
Pour point	ASTM D97	-40.0 °C
Flash point	ASTM D92	234.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

DIAMI 5W-30

Kumho Diami 5w-30,a superior performance, fully synthetic engine oil for new generation engines with the latest technology.Has been developed. Reducing exhaust emissions in diesel vehicles.It is formulated to maintain the efficiency of systems. Since it is produced with Low SAPS technology, the diesel particulate filter.It extends its life and reduces the formation of waste that can harm the environment

PERFORMANCE

STANDARDS: API SN/CF, ACEA C3
RECOMMENDATIONS: BMW LL-04, GM Dexos2, MB - Approval 229.51, Renault RN 0700/0710

Thanks to the low ash it contains, it helps reduce particle accumulation in diesel particle filters and reduce fuel consumption in gasoline vehicles.Helps reduce wear on catalytic converters.Thanks to low evaporation losses, it reduces oil consumption and provides fuel economy.Provides high protection and extends engine life thanks to the latest technology used.Provides excellent wear control, especially initial wear.With its stable structure, its performance remains the same throughout use

PROPERTIES

Viscosity grade		5W-30
Density at 15°C	ASTM D4052	0.853
Viscosity at 40°C (104°F)	ASTM D445	60,4 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	11,24 mm²/s
Viscosity Index	ASTM D2270	180.0
Pour point	ASTM D97	-40.0 °C
Flash point	ASTM D92	227.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

DIAMI WS 5W-30

Kumho Diami Ws 5w-30,a high-performance, fully synthetic engine oil developed with the latest technology for new generation engines. It is primarily formulated to maintain the efficiency of exhaust emission reduction systems in VW, Audi, Skoda, and Seat gasoline and diesel vehicles. Because it is produced with Low SAPS technology, it extends the life of the diesel particulate filter and reduces the formation of waste that can harm the environment. It has been specially developed for the engines of new generation gasoline and diesel vehicles. It is used in engines that require VW 504 00/507 00 approval.

PERFORMANCE

STANDARDS: ACEA C3
RECOMMENDATIONS: VW 504.00/507.00

Thanks to the low ash it contains, it helps reduce particle accumulation in diesel particle filters and reduce fuel consumption in gasoline vehicles.Helps reduce wear on catalytic converters.Thanks to low evaporation losses, it reduces oil consumption and provides fuel economy.Provides high protection and extends engine life thanks to the latest technology used.Provides excellent wear control, especially initial wear.With its stable structure, its performance remains the same throughout use

PROPERTIES

Viscosity grade		5W-30
Density at 15°C	ASTM D4052	0.85
Viscosity at 40°C (104°F)	ASTM D445	66,4 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	11,26 mm²/s
Viscosity Index	ASTM D2270	170.0
Pour point	ASTM D97	-46.0 °C
Flash point	ASTM D92	229.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

DIAMI RN 5W-30

Kumho Diami RN 5W-30,a high-performance, fully synthetic engine oil produced with the latest technology for new generation engines. Formulated with Low SAPS technology for Diesel Particulate Filter (DPF) engines to reduce harmful exhaust emissions.With its long oil change interval and DPF protection feature, it is recommended for Renault vehicles.Recommended for engines of new generation diesel vehicles in Euro IV standards. Particularly suitable for Renault vehicles with Diesel Particulate Filters.Recommended for all driving conditions, including city driving.

PERFORMANCE

STANDARDS: ACEA C4
RECOMMENDATIONS: MB-APPROVAL 226.51,MB-APPROVAL 229.51, RENAULT RN 0720

Thanks to the low ash it contains, it helps reduce particle accumulation in diesel particle filters and reduce fuel consumption in gasoline vehicles.Helps reduce wear on catalytic converters.Thanks to low evaporation losses, it reduces oil consumption and provides fuel economy.Provides high protection and extends engine life thanks to the latest technology used.Provides excellent wear control, especially initial wear.With its stable structure, its performance remains the same throughout use

PROPERTIES

Viscosity grade		5W-30
Density at 15°C	ASTM D4052	0.850
Viscosity at 40°C (104°F)	ASTM D445	71,2 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	11,24 mm²/s
Viscosity Index	ASTM D2270	167.0
Pour point	ASTM D97	-35.0 °C
Flash point	ASTM D92	232.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

DIAMI 10W-30

Kumho Diami 10w-30, high performance synthetic engine formulated by adding advanced technology additives to premium quality synthetic base oils.In high performance modern vehicles, passenger cars, gasoline and diesel engines, SUVs and off-roads,recommended for 4x4 off-road vehicles or pick ups such as CHRYSLER, GMC, FORD, DODGE, TOYOTA, NISSAN.

PERFORMANCE

STANDARDS: API SM/CF, ACEA A3/B4
RECOMMENDATIONS: VW 501 01/505 00

Provides maximum fuel savings and keeps the engine clean.Provides longer oil change interval.Increases efficiency by reducing internal engine friction.It prevents the oil film from tearing and provides protection thanks to its balanced viscosity even under heavy conditions.

PROPERTIES

Viscosity grade		10W-30
Density at 15°C	ASTM D4052	0.872
Viscosity at 40°C (104°F)	ASTM D445	72,6 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	11,34 mm²/s
Viscosity Index	ASTM D2270	143.0
Pour point	ASTM D97	-31.0 °C
Flash point	ASTM D92	221.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

DIAMI 10W-60

Kumho Diami 10w-60, high performance synthetic engine formulated by adding advanced technology additives to premium quality synthetic base oils.High-powered racing engines of all types, including petrol and diesel engines, passenger cars, and the latest high-performance cars equipped with fuel injection, multi-valve, turbochargers or superchargers that operate under the most demanding conditions, are specifically designed for these vehicles.

PERFORMANCE

STANDARDS: API SN/CF, ACEA A3/B4
RECOMMENDATIONS: FCA 955535-H3

Provides maximum fuel savings and keeps the engine clean.Provides longer oil change interval.Increases efficiency by reducing internal engine friction.Exceptional engine cleanliness for a superior driving experience, outstanding oil pressure maintenance at high speeds, and exceptional starting speed even under the most demanding conditions for instant response and acceleration.

PROPERTIES

Viscosity grade		10W-60
Density at 15°C	ASTM D4052	0.866
Viscosity at 40°C (104°F)	ASTM D445	167 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	23,3 mm²/s
Viscosity Index	ASTM D2270	163.0
Pour point	ASTM D97	-33.0 °C
Flash point	ASTM D92	243.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

DIAMI 5W-40

Kumho Diami 5w-40, has been developed to meet the requirements of some of the highest-performing gasoline engines. Thanks to its highly durable formula, this lubricant offers improved fuel economy and complete engine protection even in the most complex engine designs. It is suitable for hybrid vehicles as long as OEM specifications are met.It is a high-performance fully synthetic engine oil developed with Low-SAPSformulation for use in vehicles with low emission systems (DPF, SCR).

PERFORMANCE

STANDARDS: API SN/CF, ACEA A3/B4
RECOMMENDATIONS: FIAT 9.55535-M2/N2/Z2, MB 229.3, Renault RN 0700/0710, VW 502 00/505 00

Provides maximum fuel savings and keeps the engine clean.Provides longer oil change interval.Increases efficiency by reducing internal engine friction.It prevents the oil film from tearing and provides protection thanks to its balanced viscosity even under heavy conditions.

PROPERTIES

Viscosity grade		5W-40
Density at 15°C	ASTM D4052	0.856
Viscosity at 40°C (104°F)	ASTM D445	64,9 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	12,23 mm²/s
Viscosity Index	ASTM D2270	184.0
Pour point	ASTM D97	-39.0 °C
Flash point	ASTM D92	220.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance automotive oil

DIAMI 10W-40

Kumho Diami 10W-40, synthetic base, providing wear protection with its new improved formula, it is a synthetic engine oil produced with oils and new additive technology.Gasoline and diesel engines that require ACEA A3/B4 performance level engine oil in SAE 10W-40 viscosity class, it can be recommended for all passenger cars and light commercial vehicles.

PERFORMANCE

STANDARDS: API SN/CF, ACEA A3/B4
RECOMMENDATIONS: MB 229,3, VW 501.00/505.00 ,PSA B71 2300

Provides maximum fuel savings and keeps the engine clean.Provides longer oil change interval.Increases efficiency by reducing internal engine friction.It prevents the oil film from tearing and provides protection thanks to its balanced viscosity even under heavy conditions.

PROPERTIES

Viscosity grade		10W-40
Density at 15°C	ASTM D4052	0.87
Viscosity at 40°C (104°F)	ASTM D445	86,4 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	13,03 mm²/s
Viscosity Index	ASTM D2270	154.0
Pour point	ASTM D97	-33.0 °C
Flash point	ASTM D92	233.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation automotive oil

MIKO 5W-30

Kumho Miko 5W-30, produced with synthetic base oils and additive technology, this high-performance fully synthetic engine oil is suitable for use in many vehicle models with gasoline, passenger diesel and lightcommercial vehicles, naturally aspirated, direct injection, turbocharged and multi-valve engines.

PERFORMANCE

STANDARDS: API SL/CF, ACEA A3/B4
RECOMMENDATIONS: BMW LL-98, GM LL-B-025, MB 229.5, Renault RN 0710, RN 0700 VW 502.00 / 505.00

It maintains its liquid state even at low temperatures, helps keep the engine clean by reducing sediment and soot formation, protects the vehicle during initial start-up, and extends its service life. With the help of its detergent-dispersant additives, it disperses the dirt formed as a result of combustion in the environment, preventing sediment accumulation. In this way, it ensures that the lubrication channels remain constantly clean, increasing engine performance and extending the life of the engine. It provides consistent lubrication in all climate and road conditions. Therefore, it can be used safely in all four seasons.

PROPERTIES

Viscosity grade		5W-30
Density at 15°C	ASTM D4052	0.864
Viscosity at 40°C (104°F)	ASTM D445	73,4 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	11,22 mm²/s
Viscosity Index	ASTM D2270	139.0
Pour point	ASTM D97	-32.0 °C
Flash point	ASTM D92	207.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation automotive oil

MIKO 10W-40

Kumho Miko 10W-40, semi synthetic base, providing wear protection with its new improved formula, it is a synthetic engine oil produced with oils and new additive technology.Gasoline and diesel engines that require ACEA A3/B4 performance level engine oil in SAE 10W-40 viscosity class, it can be recommended for all passenger cars and light commercial vehicles.This is a semi-synthetic gasoline engine oil with API SL/CF and ACEA A3/B4 performance levels.

PERFORMANCE

STANDARDS: API SL/CF, ACEA A3/B4
RECOMMENDATIONS: VW 501.00/505.00, RN710

It maintains its liquid state even at low temperatures, helps keep the engine clean by reducing sediment and soot formation, protects the vehicle during initial start-up, and extends its service life. With the help of its detergent-dispersant additives, it disperses the dirt formed as a result of combustion in the environment, preventing sediment accumulation. In this way, it ensures that the lubrication channels remain constantly clean, increasing engine performance and extending the life of the engine. It provides consistent lubrication in all climate and road conditions. Therefore, it can be used safely in all four seasons.

PROPERTIES

Viscosity grade		10W-40
Density at 15°C	ASTM D4052	0.873
Viscosity at 40°C (104°F)	ASTM D445	96,4 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	14,09 mm²/s
Viscosity Index	ASTM D2270	141.0
Pour point	ASTM D97	-33.0 °C
Flash point	ASTM D92	213.0 °C

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New generation automotive oil

MIKO LPG 10W-40

Kumho Miko LPG 10W-40, semi synthetic base, providing wear protection with its new improved formula, it is a synthetic engine oil produced with oils and new additive technology.Gasoline and LPG engines that require ACEA A3/B4 performance level engine oil in SAE 10W-40 viscosity class, it can be recommended for all passenger cars and light commercial vehicles.This is a semi-synthetic gasoline engine oil with API SL/CF and ACEA A3/B4 performance levels.

PERFORMANCE

STANDARDS: API SL/CF, ACEA A3/B4
RECOMMENDATIONS: VW 501.00/505.00, RN710

It maintains its liquid state even at low temperatures, helps keep the engine clean by reducing sediment and soot formation, protects the vehicle during initial start-up, and extends its service life. With the help of its detergent-dispersant additives, it disperses the dirt formed as a result of combustion in the environment, preventing sediment accumulation. In this way, it ensures that the lubrication channels remain constantly clean, increasing engine performance and extending the life of the engine. It provides consistent lubrication in all climate and road conditions. Therefore, it can be used safely in all four seasons.

PROPERTIES

Viscosity grade		10W-40
Density at 15°C	ASTM D4052	0.873
Viscosity at 40°C (104°F)	ASTM D445	96,4 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	14,09 mm²/s
Viscosity Index	ASTM D2270	141.0
Pour point	ASTM D97	-33.0 °C
Flash point	ASTM D92	213.0 °C

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New generation automotive oil

MIKO 15W-40

Kumho Miko 15W-40, developed to provide superior protection and lubrication performance in the engine, produced by blending mineral base oils and special additives.High-performance engine oil used in varying operating conditions.

PERFORMANCE

STANDARDS: API SL/CF,ACEA A3/B3/B4

Complete protection against rust and wear in the engine.High-performance wear control with minimum sludge deposits, ensures fluidity over a wide temperature range.Formulated for all types of passenger and light commercial vehicle engines, gasoline, diesel and LPG, naturally aspirated or turbocharged.

PROPERTIES

Viscosity grade		15W-40
Density at 15°C	ASTM D4052	0.872
Viscosity at 40°C (104°F)	ASTM D445	106 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	14,69 mm²/s
Viscosity Index	ASTM D2270	131.0
Pour point	ASTM D97	-31.0 °C
Flash point	ASTM D92	212.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation automotive oil

MIKO 20W-50

Kumho Miko 20W-50, developed to provide superior protection and lubrication performance in the engine, produced by blending mineral base oils and special additives.High-performance engine oil used in varying operating conditions.

PERFORMANCE

STANDARDS: API SL/CF,ACEA A3/B3/B4

Complete protection against rust and wear in the engine.High-performance wear control with minimum sludge deposits, ensures fluidity over a wide temperature range.Formulated for all types of passenger and light commercial vehicle engines, gasoline, diesel and LPG, naturally aspirated or turbocharged.

PROPERTIES

Viscosity grade		20W-50
Density at 15°C	ASTM D4052	0.89
Viscosity at 40°C (104°F)	ASTM D445	179,2 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	21 mm²/s
Viscosity Index	ASTM D2270	129.0
Pour point	ASTM D97	-24.0 °C
Flash point	ASTM D92	226.0 °C

JAPAN

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New generation automotive oil

MIKO LPG 20W-50

Kumho Miko LPG 20W-50, developed to provide superior protection and lubrication performance in the engine, produced by blending mineral base oils and special additives.High-performance engine oil used in varying operating conditions.

PERFORMANCE

STANDARDS: API SL/CF,ACEA A3/B3/B4

Complete protection against rust and wear in the engine.High-performance wear control with minimum sludge deposits, ensures fluidity over a wide temperature range.Formulated for all types of passenger and light commercial vehicle engines, gasoline, diesel and LPG, naturally aspirated or turbocharged.

PROPERTIES

Viscosity grade		20W-50
Density at 15°C	ASTM D4052	0.89
Viscosity at 40°C (104°F)	ASTM D445	179,2 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	21 mm²/s
Viscosity Index	ASTM D2270	129.0
Pour point	ASTM D97	-24.0 °C
Flash point	ASTM D92	226.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Heavy Duty Diesel oil

TASO 5W-30

Kumho Taso 5W-30, formulated with the addition of high-tech additives to premium quality synthetic base oils, ultra-high It is a fully synthetic engine oil suitable for performance Euro VI vehicles.It is used in all high-speed and four-stroke heavy duty diesel vehicles. Transportation, construction, mining and agriculture It is recommended for use in heavy vehicles, construction equipment and long-distance fleets in sectors such as. with DPF and it is suitable for vehicles without EGR and SCR engines.

PERFORMANCE

STANDARDS: API CK-4/SN, ACEA E6/E7/E9
RECOMMENDATIONS: Mercedes-Benz MB 228.51/228.31, Renault Trucks RLD-4, Volvo VDS-4.5, MAN M3677, MTU Type 3.1, Mack EO-S 4.5, Cummins CES 20086, CAT ECF-3, Deutz DQC IV-10LA, Detroit Diesel DDC 93K222, Scania LDF-4

Protects the engine and particle filter by preventing friction and wear with its special low-ash formula.Provides long oil change interval and fuel savings.Provides effective piston cleaning by preventing piston deposits and sediment formation.Protects the environment with exhaust emission control.

PROPERTIES

Viscosity grade		5W-30
Density at 15°C	ASTM D4052	0.854
Viscosity at 40°C (104°F)	ASTM D445	57 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	10,7 mm²/s
Viscosity Index	ASTM D2270	174.0
Pour point	ASTM D97	-46.0 °C
Flash point	ASTM D92	231.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Heavy Duty Diesel oil

TASO LS 10W-40

Kumho Taso Ls 10W-40, manufactured to provide excellent lubrication for heavy-duty diesel engines with modern systems. It works compatibly with SCR systems according to Euro V standards. It is used in all high-speed and four-stroke heavy-duty diesel vehicles. It is recommended for use in heavy vehicles, construction machinery and long-haul fleets in sectors such as transportation, construction, mining and agriculture. It is suitable for vehicles with and without DPF, and for engines with EGR and SCR. It is especially recommended for modern Volvo heavy-duty vehicles.

PERFORMANCE

STANDARDS: API CK-4, ACEA E6/E8/E7/E9/E11
RECOMMENDATIONS: DTFR 15C100(MB 228.31), DTFR 15C110 (MB 228.51), VOLVO VDS-4.5, Renault VI RLD-3, VOLVO Mack EOS-4.5, MAN M3775, CUMMINS CES 20086, MTU Type 3.1, DEUTZ DQC IV-18 LA, DDC 93K222, CAT ECF-3/ECF-2

Protects the engine and particle filter by preventing friction and wear with its special low-ash formula.Provides long oil change interval and fuel savings.Provides effective piston cleaning by preventing piston deposits and sediment formation.Protects the environment with exhaust emission control.

PROPERTIES

Viscosity grade		10W-40
Density at 15°C	ASTM D4052	0.862
Viscosity at 40°C (104°F)	ASTM D445	89 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	13,5 mm²/s
Viscosity Index	ASTM D2270	148.0
Pour point	ASTM D97	-36.0 °C
Flash point	ASTM D92	220.0 °C

JAPAN

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New generation high-performance Heavy Duty Diesel oil

TASO LA 10W-40

Kumho Taso La 10W-40, manufactured to provide excellent lubrication for modern heavy-duty diesel engines with particulate filters (EURO IV, EURO V, EURO VI) and SCR systems. Thanks to its low-ash additives, it provides superior protection in exhaust systems and engines, and longer oil change intervals. It is used in heavy-duty engines with EURO III and higher standards and is not suitable for passenger cars. Due to its low-ash structure, it is used in conventional EURO III engines; and in new technology engines with SCR or particulate filter systems. It is recommended to use low-sulfur, new generation diesel fuels in engines with particulate filters.

PERFORMANCE

STANDARDS: API CI-4, ACEA E6/E7/E8/E9/E11
RECOMMENDATIONS: DTFR 15C110, Volvo VDS-3, Renault RLD-2, MACK EO-N, MB 228,51,MAN 3477/M3271, Cummins CES 20076/77, SCANIA Low Ash, DEUTZ DQC IV 18 LA, MTU Type 3.1, CAT ECF-1-a

With its special anti-depletion formulation, it reduces depletion by up to 50% compared to standards. Thanks to its low ash content, it extends the life of the particulate filter and provides long oil change intervals. It provides environmental protection thanks to its high exhaust emission control. It provides superior protection for the engine even under harsh road and climate conditions. It has a high corrosion prevention property even when using fuels with excessive sulfur content.

PROPERTIES

Viscosity grade		10W-40
Density at 15°C	ASTM D4052	0.872
Viscosity at 40°C (104°F)	ASTM D445	109 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	15.65 mm²/s
Viscosity Index	ASTM D2270	152.0
Pour point	ASTM D97	-38.0 °C
Flash point	ASTM D92	240.0 °C

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New generation high-performance Heavy Duty Diesel oil

TASO 10W-30

Kumho Taso 10W-30, an ultra high performance synthetic diesel engine oil. Especially for turbos where long oil change intervals are required.Diesel is used in heavy duty vehicles. Maximum protection under the harshest conditions with its superior formulation and synthetic technology provides.It is used in all turbocharged, naturally aspirated, high-power, four-stroke light and heavy-duty diesel engine vehicles.In heavy vehicles, construction equipment and long-haul fleets in sectors such as transportation, construction, mining and agriculture recommended to use.

PERFORMANCE

STANDARDS: API CI-4, ACEA E7
RECOMMENDATIONS: DTFR 15B110 (MB 228.3), VOLVO VDS-3, RENAULT RLD-2, MACK EO-N, MAN 3275, CUMMINS CES 20077/20078, FORD WSS-M2C921-A, JASO DH-1, CAT ECF-1a/CAT ECF-2, DETROIT DIESEL DDC 93K215, Global DHD-1

With its special anti-depletion formulation, it reduces depletion by up to 50% compared to standards. Thanks to its low ash content, it extends the life of the particulate filter and provides long oil change intervals. It provides environmental protection thanks to its high exhaust emission control. It provides superior protection for the engine even under harsh road and climate conditions. It has a high corrosion prevention property even when using fuels with excessive sulfur content.

PROPERTIES

Viscosity grade		10W-30
Density at 15°C	ASTM D4052	0.860
Viscosity at 40°C (104°F)	ASTM D445	92 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	13.45 mm²/s
Viscosity Index	ASTM D2270	170.0
Pour point	ASTM D97	-39.0 °C
Flash point	ASTM D92	230.0 °C

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New generation high-performance Heavy Duty Diesel oil

TASO S 15W-40

Kumho Taso S 15W-40,a long-lasting diesel engine oil at the super high performance diesel engine oil (SHPD) quality level it provides excellent performance in diesel engines running on low and high sulfur fuels.All trucks, buses, semi-trailers, trucks with diesel engines, especially turbocharged and low-emission diesel engines Recommended for construction equipment and generator applications.

PERFORMANCE

STANDARDS: API CI-4, ACEA E7
RECOMMENDATIONS: DTFR 15B110, Volvo VDS-3, Mack EO-N, Renault VI RLD-2, Deutz DQC III-18, MTU TYPE 2.0, Global DHD-1, Cummins CES 20077/78, Detroit Diesel DDC 93K215, MAN M3275, CAT ECF-1A , Iveco 18-1804 T2-E7; JASO DHD-1; EU-Level E-7, MB 228.3 (DTFR 15B110), MB 229.1, VW 501.01, 505.00, Scania LDF, LDF-2; CASE MS 1121, New Holland NH-330H/G; Deutz DQC III-10, DQC III-05, DQC II-10, DQC II-05; Ford M2C 906-A

It protects the engine in fuels with high TBN values and high sulfur content.It is safe in all turbocharged and non-turbocharged engines by preventing wear at high speeds and temperatures provides usage.It increases combustion efficiency and engine power by keeping the engine clean.Neutralizes combustion acids even when working with high sulfur fuels.Provides long gasket and seal life.It is long lasting

PROPERTIES

Viscosity grade		15W-40
Density at 15°C	ASTM D4052	0.887
Viscosity at 40°C (104°F)	ASTM D445	114 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	15.05 mm²/s
Viscosity Index	ASTM D2270	138.0
Pour point	ASTM D97	-38.0 °C
Flash point	ASTM D92	240.0 °C

JAPAN

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New generation high-performance Heavy Duty Diesel oil

TASO 15W-40

Kumho Taso 15W-40, was formulated with special performance additives ensuring superior protection at high temperatures for diesel engines.Minimizes the oil utilization of turbo- and super-charged engines, prevents extreme oil consumption and ensures excellent protection for engines against wears.All trucks, buses, semi-trailers, trucks with diesel engines, especially turbocharged and low-emission diesel engines Recommended for construction equipment and generator applications

PERFORMANCE

STANDARDS: API CG-4/CF-4/CF/SH/SG, ACEA E2
RECOMMENDATIONS: MB 228.11

It does not decrease in volume, lose pressure, or foam even under the most demanding operating conditions. It facilitates starting in cold weather and provides effective lubrication in hot weather. It reduces maintenance costs and provides effective protection, especially in vehicles with high mileage. It minimizes wear and tear that may occur in the engine during initial startup. Thanks to its wide range of applications, it reduces the need for product variety in fleets. It extends the time between oil change periods. It increases combustion efficiency by keeping the engine clean. It is long-lasting.

PROPERTIES

Viscosity grade		15W-40
Density at 15°C	ASTM D4052	0.886
Viscosity at 40°C (104°F)	ASTM D445	110 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	15.25 mm²/s
Viscosity Index	ASTM D2270	143.0
Pour point	ASTM D97	-38.0 °C
Flash point	ASTM D92	240.0 °C

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New generation high-performance Heavy Duty Diesel oil

TASO 20W-50

Kumho Taso 20W-50, was formulated with special performance additives ensuring superior protection at high temperatures for diesel engines.Minimizes the oil utilization of turbo- and super-charged engines, prevents extreme oil consumption and ensures excellent protection for engines against wears.All trucks, buses, semi-trailers, trucks with diesel engines, especially turbocharged and low-emission diesel engines Recommended for construction equipment and generator applications

PERFORMANCE

STANDARDS: API CG-4/CF-4/CF/SH/SG, ACEA E2
RECOMMENDATIONS: Allison C3, CAT TO-2, MIL-L-2104D, VW 505 00

It does not decrease in volume, lose pressure, or foam even under the most demanding operating conditions. It facilitates starting in cold weather and provides effective lubrication in hot weather. It reduces maintenance costs and provides effective protection, especially in vehicles with high mileage. It minimizes wear and tear that may occur in the engine during initial startup. Thanks to its wide range of applications, it reduces the need for product variety in fleets. It extends the time between oil change periods. It increases combustion efficiency by keeping the engine clean. It is long-lasting.

PROPERTIES

Viscosity grade		20W-50
Density at 15°C	ASTM D4042	0.89
Viscosity at 40°C (104°F)	ASTM D445	174 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	19,63 mm²/s
Viscosity Index	ASTM D2270	129.0
Pour point	ASTM D97	-24.0 °C
Flash point	ASTM D92	240.0 °C

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New generation high-performance Heavy Duty Diesel oil

TASO HD 50W

Kumho Taso HD 50w, formulated by adding detergent-dispersant type additive packages to high-quality base oils,it is a high-viscosity index, single-grade, superior quality oil.It is used in high-speed and high-power diesel engines of construction machinery and heavy vehicles.

PERFORMANCE

STANDARDS: API CF/CF-4/SG,
RECOMMENDATIONS: Allison C3, CAT TO-2, MIL-L-2104D

It minimizes deposit formation and prevents wear under heavy operating conditions. Due to its high viscosity index, it maintains its fluidity at low temperatures. It forms an oil film on metal surfaces, protecting them from the chemical effects of acidic residues. It prevents rust formation from moisture and water seeping into the engine. It keeps the engine clean, increasing combustion efficiency. It minimizes wear under high temperatures and loads. Thanks to its sufficient TBN value, it neutralizes acidic substances that may form from sulfur in the fuel. It helps extend oil change intervals.

PROPERTIES

Viscosity grade		50W
Density at 15°C	ASTM D4052	0.90
Viscosity at 40°C (104°F)	ASTM D445	222 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	19,53 mm²/s
Viscosity Index	ASTM D2270	99.0
Pour point	ASTM D97	-12 °C
Flash point	ASTM D92	268.0 °C

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High-Performance Transmission and Hydraulic Oil

AGRITRANS 10W-30

Kumho Agritrans 10w-30,specially developed high-performance transmission and hydraulic oil. It reduces clutch vibration,is suitable for hydraulic pump gearbox lubrication. Provides high performance at low temperatures.It is recommended for use in hydraulic, transmission and wet brake systems of agricultural, construction and industrial vehicles.It meets the specifications of OEM manufacturers recommending UTTO type lubricants.

PERFORMANCE

STANDARDS: APIGL-4
RECOMMENDATIONS: Allis-ChalmersPowerFluid821,AGCO-AllisPowerFluid821XL,AGCOMassey-FergusonM1135/M1141, AllisonC-2,C-3 andC-4,Case International: MS-1204, 1205, 1206, 1207,Case-IH MS-1210, JIC145 JICase JIC143 / 144,CNHCase/NewHollandMAT3525, CATTO-2,Deutz-Allis272843,257541,246634,ESNM2C41-B,ESN-M2C43, ESN-M2C48-A and ESN-M2C48-B, ESN-M2C53-A and ESN-M2C53-B, ESN M2C92-A, ESN-M2C134-A,B, C,D (Current), FNHA-2-C-201, Ford and New Holland FNHA-2-C-200A, Hesston-Fiat: (tractors only) AF-87, Multi-F,InternationalFarmallMS-1204,JIC185,InternationalHarvesterB-5,B-6(InternationalHarvester),John Deere: JDM J20Aand J20BJDM J20Cand J20DJDM J14Band J14CJDM J21AJDT 303Quatrol,KomatsuDresser: B-06-0001and B-06-0002,Kubota:UDT(Current),Massey-FergusonM-1110,M-1127A,andM-1127B,M-1129A, M-1135 (Current Worldwide), M-1141 (Current EP THF) M-1143 (FinishedOil) M-1145 (FinishedOil), MAT 3225 / Nexplore fluid, 3525, 3526 (Current), Minneapolis-Moline Q-1766, Multi G 134/NH410B (FNHA-2-C-201), Multi-G(Current),NewIdeaQ-1802,NewHolland(Fiat):FNHA-2-C-200,OliverQ-1705,Type55,Q-1722,Q-1766B, RenkDoromat: 873 874Aand 874B(current), Sperry-Vickers 35VQ25 and M-2952-S(Vickers), I-286-S(Vickers), M-2950-S(Vickers),SteigerSEMS17001(Steiger),VersatileSpecifcation23Mor 24M(Versatile),VolvoCEWB-101, White Farm Equipment Q-1826 (Current), ZF TE-ML 03E/03F/05E/05F/06K/17E/21F

It reduces noise and wear. It prevents corrosion and rust. It provides high performance in wet braking systems. It ensures consistently high power output from the equipment.

PROPERTIES

Viscosity grade		10W-30
Density at 15°C	ASTM D4052	0.89
Viscosity at 40°C (104°F)	ASTM D445	61 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	9,63 mm²/s
Viscosity Index	ASTM D2270	139.0
Pour point	ASTM D97	-34.0 °C
Flash point	ASTM D92	230.0 °C

JAPAN

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Power Transmission Oil for Agricultural Vehicles

AGRITRANS 20W-40

Kumho Agritrans 20w-40, power transmission oil produced by adding a special additive package to high-quality paraffinic base oils. It is used in the drivetrains, brakes, hydraulic systems, final drive units, differentials, and transmissions of tractors and construction machinery serving primarily the agricultural, automotive, and industrial sectors. It is recommended as a power transmission oil for all systems except the engine in all modern tractors.

PERFORMANCE

RECOMMENDATIONS:Massey Ferguson CMS M1135, Ford ESEN M2C 86B

Thanks to its formula developed with superior quality mineral base oils and special additives, it reduces noise, prevents wear, eliminates foaming and cavitation problems, prevents rust and corrosion, and is compatible with sealing elements.

PROPERTIES

Density at 15°C	ASTM D4052	0.89
Viscosity at 40°C (104°F)	ASTM D445	84 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	10,83 mm²/s
Viscosity Index	ASTM D2270	114.0
Pour point	ASTM D97	-27.0 °C
Flash point	ASTM D92	240.0 °C

JAPAN

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Four-Stroke Motorcycle Oil

GT 4T 5W-30

Kumho GT 4T 5w-30, high-performance engine oil designed for racing motorcycles with integrated or non-integrated gearboxes, wet or dry clutches, and 4-stroke engines, designed to run on low-viscosity oil. Suitable for speed motorcycles, MotoGP, ATV, UTV, SuperSport, Superbike, and hill climbing applications requiring low viscosity.

PERFORMANCE

STANDARDS: API SN,JASO MA2

It protects the engine perfectly, extending its lifespan. It reduces internal engine friction, providing high engine power. Thanks to its high viscosity index, it keeps the oil viscosity under control even under severe conditions, preventing oil film rupture. Thanks to active cleaning agents, it prevents active deposits and sludge formation, keeping the engine clean. It provides excellent engine performance at high temperatures in air-cooled and water-cooled engines.

PROPERTIES

Viscosity grade		5W-30
Density at 15°C	ASTM D4052	0.855
Viscosity at 40°C (104°F)	ASTM D445	64,8mm²/s
Viscosity at 100°C (212°F)	ASTM D445	11,3 mm²/s
Viscosity Index	ASTM D2270	170.0
Pour point	ASTM D97	-36 °C
Flash point	ASTM D92	233.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

Four-Stroke Motorcycle Oil

GT 4T 5W-40

Kumho GT 4T 5w-40, high-performance engine oil designed for racing motorcycles with integrated or non-integrated gearboxes, wet or dry clutches, and 4-stroke engines, designed to run on low-viscosity oil. Suitable for speed motorcycles, MotoGP, ATV, UTV, SuperSport, Superbike, and hill climbing applications requiring low viscosity.

PERFORMANCE

STANDARDS: API SN,JASO MA2

It protects the engine perfectly, extending its lifespan. It reduces internal engine friction, providing high engine power. Thanks to its high viscosity index, it keeps the oil viscosity under control even under severe conditions, preventing oil film rupture. Thanks to active cleaning agents, it prevents active deposits and sludge formation, keeping the engine clean. It provides excellent engine performance at high temperatures in air-cooled and water-cooled engines.

PROPERTIES

Viscosity grade		5W-40
Density at 15°C	ASTM D4052	0.86
Viscosity at 40°C (104°F)	ASTM D445	73,6mm²/s
Viscosity at 100°C (212°F)	ASTM D445	13,05 mm²/s
Viscosity Index	ASTM D2270	180.0
Pour point	ASTM D97	-36 °C
Flash point	ASTM D92	233.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

Four-Stroke Motorcycle Oil

GT 4T 10W-50

Kumho GT 4T 10w-50, is fully synthetic engine oil for modern, high performance 4-stroke sports bike that increases engine acceleration and power right up to maximum.It is suitable for all makes of 4-strokes bikes, both carburettor and fuel injected where API SN (and below) and JASO MA or MA2 specifications are recommended.Thanks to its superior additive technology, it minimizes viscosity changes at high temperatures, providing excellent engine protection.

PERFORMANCE

STANDARDS: API SN,JASO MA2

It protects the engine perfectly, extending its lifespan. It reduces internal engine friction, providing high engine power. Thanks to its high viscosity index, it keeps the oil viscosity under control even under severe conditions, preventing oil film rupture. Thanks to active cleaning agents, it prevents active deposits and sludge formation, keeping the engine clean. It provides excellent engine performance at high temperatures in air-cooled and water-cooled engines.

PROPERTIES

Viscosity grade		10W-50
Density at 15°C	ASTM D4052	0.875
Viscosity at 40°C (104°F)	ASTM D445	142 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	18,33 mm²/s
Viscosity Index	ASTM D2270	146.0
Pour point	ASTM D97	-30 °C
Flash point	ASTM D92	230.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

Four-Stroke Motorcycle Oil

GT 4T 15W-50

Kumho GT 4T 15w-50, this is a high-performance engine oil containing additives, designed for four-stroke motorcycles. Thanks to its superior technology additives, it minimizes viscosity changes at high temperatures, providing excellent engine protection. It can be safely used in four-stroke and high-performance motorcycles in all four seasons. It is also suitable for European and Japanese manufactured motorcycles where API SN and/or JASO MA2 specifications are recommended.

PERFORMANCE

STANDARDS: API SN,JASO MA2

It protects the engine perfectly, extending its lifespan. It reduces internal engine friction, providing high engine power. Thanks to its high viscosity index, it keeps the oil viscosity under control even under severe conditions, preventing oil film rupture. Thanks to active cleaning agents, it prevents active deposits and sludge formation, keeping the engine clean. It provides excellent engine performance at high temperatures in air-cooled and water-cooled engines.

PROPERTIES

Viscosity grade		15W-50
Density at 15°C	ASTM D4052	0.88
Viscosity at 40°C (104°F)	ASTM D445	144 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	18,43 mm²/s
Viscosity Index	ASTM D2270	143.0
Pour point	ASTM D97	-30.0 °C
Flash point	ASTM D92	230.0 °C

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Four-Stroke Motorcycle Oil

GT 4T 10W-40

Kumho GT 4T 10w-40, synthetic engine oil that provides superior protection and performance, developed with synthetic technology.It can be safely used in four-stroke and high-performance, air or water-cooled motorcycles in all four seasons.It is also suitable for European and Japanese manufactured motorcycles where API SN, JASO MA2 specifications are recommended.

PERFORMANCE

STANDARDS: API SN,JASO MA2

It protects the engine by minimizing friction losses through effective lubrication at high speeds and high temperatures. It provides excellent wet clutch performance.

PROPERTIES

Viscosity grade		10W-40
Density at 15°C	ASTM D4052	0.87
Viscosity at 40°C (104°F)	ASTM D445	192,3 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	13,65 mm²/s
Viscosity Index	ASTM D2270	150.0
Pour point	ASTM D97	-32.0 °C
Flash point	ASTM D92	240.0 °C

JAPAN

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Four-Stroke Motorcycle Oil

GT 4T 15W-40

Kumho GT 4T 15w-40, synthetic engine oil that provides superior protection and performance, developed with synthetic technology.It can be safely used in four-stroke and high-performance, air or water-cooled motorcycles in all four seasons.It is also suitable for European and Japanese manufactured motorcycles where API SN, JASO MA2 specifications are recommended.

PERFORMANCE

STANDARDS: API SN,JASO MA2

It protects the engine by minimizing friction losses through effective lubrication at high speeds and high temperatures. It provides excellent wet clutch performance.

PROPERTIES

Viscosity grade		15W-40
Density at 15°C	ASTM D4052	0.87
Viscosity at 40°C (104°F)	ASTM D445	192,3 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	13,65 mm²/s
Viscosity Index	ASTM D2270	150.0
Pour point	ASTM D97	-32.0 °C
Flash point	ASTM D92	240.0 °C

JAPAN

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Four-Stroke Motorcycle Oil

GT 4T 20W-40

Kumho GT 4T 20w-40, synthetic engine oil that provides superior protection and performance, developed with synthetic technology.It can be safely used in four-stroke and high-performance, air or water-cooled motorcycles in all four seasons.It is also suitable for European and Japanese manufactured motorcycles where API SN, JASO MA2 specifications are recommended.

PERFORMANCE

STANDARDS: API SN,JASO MA2

It protects the engine by minimizing friction losses through effective lubrication at high speeds and high temperatures. It provides excellent wet clutch performance.

PROPERTIES

Viscosity grade		20W-40
Density at 15°C	ASTM D4052	0.87
Viscosity at 40°C (104°F)	ASTM D445	135,6 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	15,45 mm²/s
Viscosity Index	ASTM D2270	117.0
Pour point	ASTM D97	-22.0 °C
Flash point	ASTM D92	255.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

Two-Stroke Motorcycle Oil

GT 2T

Kumho GT 2T, mineral-based motorcycle oil containing high-performance additives, designed for air-cooled, two-stroke motorcycles and other small engines.It is used by mixing it with gasoline in air-cooled, two-stroke motorcycle and scooter engines and other small engines. The 2T/gasoline ratio is between 1/16 and 1/50. The engine manufacturer should be consulted for the appropriate mixing ratio.

PERFORMANCE

STANDARDS: APITC,(CECTSC-3)

It protects the engine by minimizing friction losses through effective lubrication at high speeds and high temperatures. It provides excellent wet clutch performance.

KUMHO GT 2T Mixing Ratios

Engine builder recommended mixing ratio	Per 4 liters of gasoline amount of oil to mix
1:10	400 ml
1:15	265 ml
1:20	200 ml
1:25	160 ml
1:30	135 ml
1:40	100 ml
1:50	80 ml

PROPERTIES

Viscosity grade		2T
Density at 15°C	ASTM D4052	0.89
Viscosity at 40°C (104°F)	ASTM D445	118,2 mm²/s
Viscosity at 100°C (212°F)	ASTM D445	12,85 mm²/s
Viscosity Index	ASTM D2270	100.0
Pour point	ASTM D97	-12.0 °C
Flash point	ASTM D92	250.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF DCT

KUMHO ATF DCT, high-tech additive package and synthetic additive developed to meet wet DCT type transmission needs.It is automatic transmission oil produced with base oils.

PERFORMANCE

STANDARDS: Audi VW TL 052 182, Mitsubishi MZ320065, Dia-Queen SSTF-I, Audi VW TL 052 529, Nissan, Ford M2C936A, BMW (Getrag) 83 22 2 148 578, Peugeot, Peugeot/Citroën 9734.S2 83 22 2 148 579, Porsche (ZF) Porsche Oil No. 999.917.080.00 83 22 0 440 214, Seat VW TL 052 182 83 22 2 147 477, Skoda VW TL 052 182, Citroën Peugeot/Citroën 9734.S2, Volkswagen VW TL 052 182, Ford/Getrag Ford M2C936A, Volvo 1161838/1161839, Mercedes-Benz MB 236.21(001 989 85 03)

- Maximum anti-wear feature
- Longer equipment life
- Long lifetime
- Felt and gasket compatibility

PROPERTIES

Density at 15°C	ASTM D4052	0.85
Viscosity at 100°C (212°F)	ASTM D445	7,98 mm²/s
Viscosity Index	ASTM D2270	164.0
Pour point	ASTM D97	-41.0 °C
Flash point	ASTM D92	222.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF CVT

KUMHO ATF CVT, transmission oil suitable for CVT type automatic transmissions operating with belt and chain drive method.

PERFORMANCE

STANDARDS: Audi Multitronic , BMW Mini Cooper EZL 799A/ 83 22 0 136 376/ 83 22 0 429 154 , Chery CVT , Daihatsu AMMIX CVTF DFE, CVT Fluid DC, CVT Fluid DFC, Fluid TC , Dodge/Jeep/Chrysler NS-2 , Dodge/Chrysler/Jeep/Mopar CVT+4 , Fiat Tutela Car CVT N.G , Fujijyuuko i-CVTF FG , GM/Saturn DEX-CVT, GM 1940713 and 1940714 , Honda HMMF, HCF2, Z-1, CVT , Hyundai/Kia CVT-1 / SP III , Idemitsu CVTF-EX1 , Lexus Fluid TC, Fluid FE , Mazda JWS 3320 , MG Rover EM-CVT , Mini Cooper EZL 799/EZL 799A/ZF , Mitsubishi CVT V1, CVTF-J1, CVTF-J4 and -J4+, CVTF ECO J4, SP-III , Nissan NS-1/2/3 , N-CVT , Punch CVTF-EX1 , Renault Elf Matic CVT, CVT CK/SK/FK , Shell Green 1V , Subaru iCVT, iCVT FG, ECVT, Lineartronic chain CVT and CVT II Fluid, K0425Y0710 & K0425Y0711, Lineartronic High Torque (HT) CVT Fluid, CV-30, K0421Y0700, NS-2, iCVT FG , Suzuki CVTF TC, CVTF 3320, CVTF 4401, NS-2, CVT Green 1 & 2, CVT Green 1V , Toyota CVTF TC, CVTF FE , Volvo CVT 4959 , VW/Audi TL 521 16 (G 052 516), TL 521 80 (G 052 180 A2) , Zotye CVTs

- Shake-free driving comfort with improved friction regulator feature
- Safe driving
- Longer equipment life
- Extended service interval
- High gasket and felt compatibility

PROPERTIES

Density at 15°C	ASTM D4052	0.845
Viscosity at 100°C (212°F)	ASTM D445	7,64 mm²/s
Viscosity Index	ASTM D2270	180.0
Pour point	ASTM D97	-41.0 °C
Flash point	ASTM D92	230.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF WS

KUMHO ATF WS, fully synthetic low viscosity fluid for automatic applications.Formulated with high quality synthetic oils and special additives, Toyota and Lexus,specially designed for the latest AISIN-WARNER automatic transmissions of automobiles.

PERFORMANCE

STANDARDS: Toyota/Lexus/Scion Type D-II, Type T, T-III, T-IV, Volkswagen/Audi G 052 025 A2/ G 052 055/ G 052 162 (-A1, -A2)/ G. 052 533/ G 052 990 (A2)/ G 055 025 (A2)/ G US 000 162, Mitsubishi ATF-J2, SP, P/N MS991156 SP-II, SP-III BMW/MINI P/N 81229400272/2750, 83220024359, 83220026922, 83220402413, 83220403248, 83220403249, 83227542290, 83229407765, 83229407807, Hyundai/KIA SP-II, SP-III, P/N 040 000C90SG, UM040 CH2O Красный-1, Nissan/Infinity 402, Matic-D/-J/ -K/-W , Mercedes/Daimler MB 236.10/11/3/5/6/7/8/9/9.1, Mazda F-1, Тип T-IV, JWS3317, M-5, P/N XT-9 -QMM5, M-III

- High viscosity index provides the required performance perfectly under all conditions and
- minimizes friction.
- Advanced additives protect against corrosion, oxidation, foaming and deposits.
- It minimizes friction in wide operating temperature ranges and reduces gear changes.
- Provides excellent operation.

PROPERTIES

Density at 15°C	ASTM D4052	0.85
Viscosity at 100°C (212°F)	ASTM D445	7 mm²/s
Viscosity Index	ASTM D2270	145.0
Pour point	ASTM D97	-44.0 °C
Flash point	ASTM D92	195.0 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF MB

KUMHO ATF MB, MB-Approval 236.15 is required for automatic transmissions in Mercedes passenger cars, SUVs and light-duty vehicles. This is a high-performance, 100% synthetic, fuel-efficient transmission oil.

PERFORMANCE

STANDARDS: MERCEDES-BENZ MB-Approval 236.15

- Thanks to its anti-wear formula, it protects numerous compact and heavily loaded gears.
- Extends service life, provides better shear resistance and oxidation resistance at high temperatures.
- Improves the response of automatic transmissions at low temperatures.
- Provides anti-vibration properties and minimizes vibrations in the engine crankshaft.
- Delivers superior automatic transmission response: smooth gear shifting feel and minimizes gear shifting delay time.
- Anti-wear, anti-corrosion and anti-foaming.

PROPERTIES

Density at 15°C	ASTM D4052	0.845
Viscosity at 100°C (212°F)	ASTM D445	4.3 mm²/s
Viscosity Index	ASTM D2270	162.0
Pour point	ASTM D97	-44.0 °C
Flash point	ASTM D92	192.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF LT 711

KUMHO ATF LT 711, long-lasting performance for use in automatic vehicle transmissions.It is a high performance automatic transmission oil that provides.

PERFORMANCE

STANDARDS: PEUGEOT/CITROEN AUTOMOBILES B71 2340, VOITH TURBO H55.6336.XX, ZF TEML 04D, ZF TE-ML 11B, ZF TE ML 14B, ZF TE-ML 17C, MB APPRONAL 236.11.

- It has balanced additive performance that provides perfect gear shifting.
- Extends gearbox life
- It reduces fuel consumption in vehicles with automatic transmission by reducing the gear friction of the outer rings.
- Provides economy.
- High viscosity index, effective protection of transmissions and power steering
- Provides stable viscosity over a wide temperature range for operating units
- Suitable for 4-season usage conditions.

PROPERTIES

Density at 15°C	ASTM D4052	0.85
Viscosity at 100°C (212°F)	ASTM D445	6,85 mm²/s
Viscosity Index	ASTM D2270	170.0
Pour point	ASTM D97	-36.0 °C
Flash point	ASTM D92	200.0 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF MULTI

KUMHO ATF MULTI, specifically designed for most modern automatic transmissions, this 100% synthetic high-performance lubricant can be used with or without a slip-lock clutch. It is particularly recommended for use in automatic transmissions from American car manufacturers GM, FORD, CHRYSLER..., Asian car manufacturers HYUNDAI, KIA, MITSUBISHI, NISSAN, SSANGYONG, SUBARU, TOYOTA... or European car manufacturers BMW, CITROËN, FIAT, MB, PEUGEOT, RENAULT, ... It is also recommended for use in older automatic transmissions, torque converters, power steering systems, boat reverse gears, hydrostatic transmissions, and mechanical and hydraulic systems where DEXRON (except DEXRON VI) or MERCON fluids are required.

PERFORMANCE

STANDARDS: ACURA ATF Z1 (except CVTs) ALLISON TRANSMISSION C-4, TES-295 AUDI G 052 025, G 052 162, G 052 533, G 052 990, G 055 005, G 055 025, Tip-tronic BENTLEY PY112995PA BMW 81 22 9 400 272, 83 22 0 026 922, 83 22 0 142 516, 83 22 0 402 413, 83 22 2 305 396 (ATF2), 83 22 9 407 765, 83 22 9 407 807, ATF2, ETL 7045E, ETL 8072B, LA2634, LT 71141 CHRYSLER ATF+, ATF+2, ATF+3, ATF+4, MS 5931, MS 7176, MS 7176D, MS 7176E, MS 9602 CITROËN 9730 AC, 9735-EJ, AL4 Automatic Gearbox Oil (# 9730.AE), JWS 3309, Z 000169756 DAIHATSU AMMIX ATF D-II, AMMIX ATF D-III SP DAIMLER ATF+3, ATF+4 DS (CAPSA) 9730 AC, 9735-EJ, JWS 3309, Z 000169756 FIAT 9.55550-AG1, 9.55550-AG2, 9.55550-AV1, 9.55550-AV2, 9.55550-AV4 FORD ESP-M2C166-H, FNR5, M2C185-A, M2C186-A, MERCON, MERCON SP, MERCON V, SQ-M2C9010-A, WSAM2C195-A, WSS-M2C138-CJ, WSS-M2C166-H, WSSM2C924-A, XL-12, XT-2-QDX, XT-2-QDX (M), XT-2-QSM (Syn), XT-5-QM, XT-6-QSP, XT-8-QAW, XT-9-QMM5 FUCHS TITAN 3353, TITAN ATF 4400 GENERAL MOTORS 19256039, 1940771, 1940773, 88861950, 88861951, 88900925, 9985010, GM DEXRON II D, GM DEXRON II E, GM DEXRON III G, GM DEXRON III H HONDA 082000-9001, ATF DW-1 (except CVTs), ATF Z1 (except CVTs), Special ATF Honda, Special Honda Power Steering Fluid HYUNDAI 040000C90SG, ATF 9638, DEX-II, JWS 3314, MATIC D,Red-1, SP II, SP III INFINITI ATF FMS, MATIC D, MATIC J, MATIC K, MATIC S, MATIC W ISUZU ATF Z1 (except CVTs), Besco ATF II, H50235, SCS JAGUAR LAND ROVER Jaguar Fluid 8432, JLM 20237, JLM 20238, M-1375.4 JEEP ATF+3 KIA ATF SP-3, DEX-II, JWS 3314, MATIC D, Red-1, SP II, SP III, UM040 CH020 LAND ROVER M-1375.4, N402, STC 4863, TYK500050 LEXUS ATF Type T-IV, ATF WS, JWS 3324, NWS 9638 MASERATI 231603 MAZDA 6-sp AT, ATF D-II, ATF F-1, ATF M-III, ATF M-V, JWS 3317 ,MERCEDES-BENZ A 001 989 22 03, MB 236.1, MB 236.10, MB 236.11, MB 236.12, MB 236.3, MB 236.5, MB 236.7, MB 236.9 MINI 81 22 9 400 272, 83 22 0 402 413, ASW 3309, ETL 7045E, LA2634 MITSUBISHI ATF-J2, ATF-J3, ATF-PA, AYC Fluid, Diamond (USA) / Dia Queen PSF, PSF 3, SP II, SP III NISSAN ATF D3M, ATF FMS, MATIC D, MATIC J, MATIC K, MATIC S, MATIC W, PSF-II OPEL GM 1940700, GM 1940767, GM 21005966 Transaxle, GM 2217466 PEUGEOT 9730 AC, 9735-EJ, JWS 3309, Z 000169756 PORSCHE 043 205 28, 999 917 547 00 (A2) RENAULT CLIP, DP0, Elfmatic J6, matic D2, matic D3 ROLLS-ROYCE PL 31493PA ROVER ATF 206 SAAB 93 160 393, 93 165 147, JWS 3309 SATURN 22686186, T-IV SEAT G 052 533, G 052 990 SKODA G 052 533, G 052 990 SUBARU ATF HP, KO410Y0700, SKU: SOA868V9241 SUZUKI JWS 2384K, JWS 3314, JWS 3317 TOYOTA 08886-00405, 08886-81015, ATF D-III, ATF Type T, ATF Type T, ATF Type T-II, ATF Type T-III, ATF Type T-IV, ATF WS, JWS 2312D, JWS 3309, JWS 3324, LF VAUXHALL GM 1940700, GM 1940767, GM 21005966 Transaxle, GM 2217466,VOITH G607 (H55.6335xx) VOLVO 1161521, 1161540, 97340, 97342 VW G 052 025, G 052 162, G 052 533, G 052 533, G 052 990, G 055 005, G 055 025, TL 52 162 ZF Lifeguard 5, Lifeguard 6, S671 090 170, S671 090 255, TEML 03D, TE-ML 04D, TE-ML 09, TE-ML 09A, TE-ML 09B, TE-ML 14A, TE-ML 14B, TE-ML 16L, TE-ML 17C

PROPERTIES

Density at 15°C	ASTM D4052	0.845
Viscosity at 100°C (212°F)	ASTM D445	7,6 mm²/s
Viscosity Index	ASTM D2270	184.0
Pour point	ASTM D97	-36.0 °C
Flash point	ASTM D92	216.0 °C

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New generation high-performance Transmission and Gear oil

ATF D-VI

KUMHO ATF D-VI, by blending synthetic base oils and advanced technology additives It is a superior performance synthetic automatic transmission oil produced. New generation of passenger and light commercial vehicles It was developed for use in transmissions. Especially Far East origin automobile manufacturers It is also suitable for use in the automatic transmissions of the new generation vehicles it produces.

PERFORMANCE

STANDARDS: GM DEXRON VI, MERCON LV, MB 236.14/236.15/236.17, ZF Lifeguardfluid 6/6+/8, Toyota Type WS, Nissan Matic S, Mazda FZ, Hyundai SP-IV, VW/Audi G 055 162, VW/Audi G 055 540, VW/Audi G 060 162, VW/Audi G 055 005, VW/Audi G 052 533, Mercedes 236.82, Mercedes 236.41, Mercedes 236.12

- Advanced friction technology ensures smooth gear changes and minimizes vibration.
- Superior resistance to oxidation provides a long service life and prevents harmful deposit formation.
- It offers stable performance over a wide temperature range, maintains viscosity at high temperatures, and improves wear resistance.
- Low viscosity reduces friction, contributing to improved fuel efficiency.

PROPERTIES

Density at 15°C	ASTM D4052	0.849
Viscosity at 100°C (212°F)	ASTM D445	5,44 mm²/s
Viscosity Index	ASTM D2270	135.0
Pour point	ASTM D97	-44.0 °C
Flash point	ASTM D92	255 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF D-IV

KUMHO ATF D-IV, fully synthetic automatic transmission oil based on carefully selected, very high-quality base oils, specifically designed for Toyota, Nissan, Honda, and Mitsubishi. It is compatible with both conventional and slip-type automatic transmissions.

PERFORMANCE

STANDARDS: Toyota/Lexus/Scion Type D-II,Type T, T-III, T-IV , Volkswagen/Audi G 052 025 A2/ G 052 055/ G 052 162 (-A1, -A2)/ G 052 533/ G 052 990 (A2)/ G 055 025 (A2)/ G US 000 162 , Mitsubishi ATF-J2, SP, P/N MS991156 SP-II, SP-III BMW/MINI P/N 81229400272/2750, 83220024359, 83220026922, 83220402413, 83220403248, 83220403249, 83227542290, 83229407765, 83229407807, Hyundai/KIA SP-II, SP-III, P/N 040000C90SG, UM040 CH2O Red1 , Nissan/Infinity 402, Matic-D/-J/-K/-W , Mercedes/Daimler MB 236.10/11/3/5/6/7/8/9/9.1, Mazda F-1, Type T-IV, JWS3317, M-5, P/N XT-9-QMM5, M-III

- Advanced friction technology ensures smooth gear changes and minimizes vibration.
- Superior resistance to oxidation provides a long service life and prevents harmful deposit formation.
- It offers stable performance over a wide temperature range, maintains viscosity at high temperatures, and improves wear resistance.
- Low viscosity reduces friction, contributing to improved fuel efficiency.

PROPERTIES

Density at 15°C	ASTM D4052	0.856
Viscosity at 100°C (212°F)	ASTM D445	5,48 mm²/s
Viscosity Index	ASTM D2270	132.0
Pour point	ASTM D97	-42.0 °C
Flash point	ASTM D92	252 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF D-III

KUMHO ATF D-III, is designed for passenger and commercial vehicle automatic transmission applications that meet the performance level It is an automatic transmission oil approved by major European and North American vehicle manufacturers.It lasts for many years with its zinc-free additive technology that has stable viscosity and significantly reduces friction Provides excellent grip and friction performance throughout.

PERFORMANCE

STANDARDS: ALLISON C-4 /FORD MERCON V /GM DEXRON III-H/ MAN 339 Type V2 /MAN 339 Type Z2/ MB 236.9 /VOITH H55.6336.XX Volvo 97341 /ZF TE-ML 04D, 05L, 14B, 16L, 20B, 21L, 25B

- Is approved by European and North American vehicle manufacturers.
- Extends the life of system components vulnerable to rust and corrosion.
- Maintains consistency at low temperatures and provides ease of power transmission.
- Extends oil change intervals thanks to its high oxidation resistance

PROPERTIES

Density at 15°C	ASTM D4052	0.865
Viscosity at 100°C (212°F)	ASTM D445	7,44 mm²/s
Viscosity Index	ASTM D2270	167.0
Pour point	ASTM D97	-40.0 °C
Flash point	ASTM D92	220 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

ATF D-II

KUMHO ATF D-II, automatic transmission oil with a high viscosity index, formulated with special package additives.Steering gears, automatic transmissions and transmissions of passenger cars and heavy vehicles If recommended, it is used in mechanisms with hydraulic systems.

PERFORMANCE

STANDARDS: GM Dexron II-D GM Dexron II-E GM Type A Suffix A

- Since its viscosity does not decrease much at high temperatures, it does not cause malfunctions.
- It does not thicken much at low temperatures and provides ease in power transmission.
- Thanks to its friction regulating feature, it provides a smooth and smooth power transmission.
- Compatible with all sealing elements.
- It facilitates and accelerates the clutch and release processes and increases transmission efficiency.
- It extends the oil change interval with its high oxidation resistance.
- Prevents foaming.
- It extends the life of system elements sensitive to rust and corrosion.

PROPERTIES

Density at 15°C	ASTM D4052	0.873
Viscosity at 100°C (212°F)	ASTM D445	7,84 mm²/s
Viscosity Index	ASTM D2270	160.0
Pour point	ASTM D97	-39.0 °C
Flash point	ASTM D92	200 °C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

GEAR 75W-90

KUMHO GEAR 75W-90, all-season gear oil developed for the differentials of passenger cars and heavy vehicles.It was developed for heavy vehicles and passenger vehicles operating under heavy loads. LONG Has oil change interval.

PERFORMANCE

STANDARDS: API GL-5,
MAN 342 M-2, ZF TE-ML 05A/7A/12E/16B,C,D/17B/19B/21B

- It prevents the oil from thickening and the formation of deposits and harmful acidic chemicals.
- Protects equipment thanks to heat transfer efficiency.
- The durability it gives to equipment parts is determined by laboratory tests and tests carried out on end-user equipment.
- Proven by field tests.
- It reduces the fuel consumption of the end user and is an environmentally friendly product.
- Provides benefits to the end user by increasing the economic life of vehicles and extending oil change intervals.
- It provides benefits in many ways.

PROPERTIES

Density at 15°C	ASTM D4052	0.86
Viscosity at 100°C (212°F)	ASTM D445	15,74 mm²/s
Viscosity Index	ASTM D2270	161.0
Pour point	ASTM D97	-32.0 °C
Flash point	ASTM D92	205 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

GEAR 75W-80

KUMHO GEAR 75W-80,is suitable for all-season use in heavy vehicles and buses with ZF brand transmissions.It is an improved, long-lasting, synthetic gear oil.It is designed to be used in gearboxes of buses and heavy vehicles operating under heavy conditions.It is especially recommended for use in ZF brand transmissions with or without Intrader system.

PERFORMANCE

STANDARDS: API GL-5,
DAF, Iveco, MAN 341 Type Z3/Z4, MIL-L-2105, Renault, Volvo 97307

- Prevents wear of components and parts.
- Provides long oil change intervals and protects parts under sudden and overload conditions.
- Proven molybdenum and carbon provide synchronizer performance.
- It shows high performance in molybdenum, carbon and sintersynchronous transmissions.
- It prevents the thinning of the film layer and provides high performance even at very low temperatures.
- Protects parts and parts even during long periods of use and at very low temperatures.
- Prevents leakage and debris formation at high temperatures and long use.
- Provides long oil change interval in the most adverse field conditions.
- It reduces the fuel consumption of the end user and is an environmentally friendly product.
- It prevents oil thickening, deposit formation and the formation of harmful acidic chemicals.
- Protects equipment thanks to heat transfer efficiency.
- Thanks to its synthetic feature, it provides long oil change intervals, reduces maintenance costs and extends service time.

PROPERTIES

Density at 15°C	ASTM D4052	0.86
Viscosity at 100°C (212°F)	ASTM D445	8,91 mm²/s
Viscosity Index	ASTM D2270	154.0
Pour point	ASTM D97	-38.0 °C
Flash point	ASTM D92	229 °C

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Transmission and Gear oil

GEAR 75W-85

KUMHO GEAR 75W-85,synchronized or unsynchronized gearboxes, transmission/differential and drive gearboxes operate under heavy loads and low speed or medium and high speeds without limited shock system. Developed specifically for manufacturers such as Nissan, Mitsubishi, Suzuki, Kia, Hyundai... etc.

PERFORMANCE

STANDARDS: API GL-5,

- With its very high lubrication power, it reduces friction and wear.
- The high-temperature 85 viscosity rating reduces gearbox friction and consequently fuel consumption.
- Provides low-temperature fluidity for easier gear changes when the gearbox is cold.
- Requires less effort on the gear lever to change gears.
- Suitable for all types of gaskets and yellow materials used in gearbox designs.
- Corrosion and foam inhibitor.

PROPERTIES

Density at 15°C	ASTM D4052	0.864
Viscosity at 100°C (212°F)	ASTM D445	12,6 mm²/s
Viscosity Index	ASTM D2270	150.0
Pour point	ASTM D97	-42.0 °C
Flash point	ASTM D92	229 °C

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New generation high-performance Transmission and Gear oil

GEAR 80W-90

KUMHO GEAR 80W-90, developed for transmission differential systems of passenger cars and heavy vehicles. Purpose automotive gear oil.Gearbox of all passenger and heavy vehicle vehicles requiring API GL-5 performance level It is an automotive gear oil that stands out with its high load carrying feature and is suitable for use in systems.

PERFORMANCE

STANDARDS: GL-5, MAN 342 Type M3, DTFR 12B110, ZF TE-ML 05A/06L/08/12L/12M/16A/16B/17A/17B/19A, B&C/21A/24A

- Prevents part failures.
- Thanks to this feature, it provides longer replacement intervals and increases resistance to shock loads.
- Provides oil film stability, increases operating performance by improving fluidity in cold weather, long changeover
- Maintains efficiency during intervals.
- It reduces the fuel costs of the end user and is more respectful to the environment.
- It prevents the oil from thickening and the formation of acidic materials that can damage equipment.
- This feature protects the equipment from acidic corrosion and ensures healthy heat transfer, thus increasing the life of the equipment.
- Increases efficiency.

PROPERTIES

Density at 15°C	ASTM D4052	0.90
Viscosity at 100°C (212°F)	ASTM D445	14 mm²/s
Viscosity Index	ASTM D2270	104.0
Pour point	ASTM D97	-27.0 °C
Flash point	ASTM D92	200 °C

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New generation high-performance Transmission and Gear oil

GEAR 85W-140

KUMHO GEAR 85W-140, automotive gear oil developed for the differentials of heavy-duty vehicles.

PERFORMANCE

STANDARDS: GL-5, MIL-L-2105D

- Provides extended oil change intervals, protecting parts from excessive loads and stresses.
- Prevents film thinning, ensuring maximum protection even with minimal maintenance.
- Provides excellent protection for components, even with low connections and long time intervals.
- Improves fuel economy and reduces operating costs.
- Prevents oil thickening, sedimentation, and the wiping away of harmful acidic chemicals.
- Protects components and prevents oil leaks.

PROPERTIES

Density at 15°C	ASTM D4052	0.91
Viscosity at 100°C (212°F)	ASTM D445	25,54 mm²/s
Viscosity Index	ASTM D2270	97.0
Pour point	ASTM D97	-15.0 °C
Flash point	ASTM D92	220 °C

JAPAN

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New generation high-performance Transmission and Gear oil

GEAR 75W

KUMHO GEAR 75W,especially recommended for the newest mechanical transmissions of brands such as HONDA, RENAULT, NISSAN, SUZUKI, TOYOTA...Suitable for all mechanical transmissions, synchronous or non-synchronous transmissions, gearboxes/axles, transfer cases or hypoid axles without limited slip capability,transmissions operating at high load and low speed or medium load and high speed and requiring API GL-4 and SAE 75W transmission oil.

PERFORMANCE

STANDARDS: GL-4,
AUDI G 052 178, G 052 512, G 052 527, G 052 726, G 060 726, G 070 726 BMW 83 22 0 306 816, 83 22 0 397 244, MTF-LT-3 CITROËN 1618078480, JWS 2271, PSA B71 2310 DS (CAPSA) 1618078480, JWS 2271, PSA B71 2310 FIAT 9.55550-MZ2, Tutela Car Experya 75W FORD WSS-M2C200-D2, WSS-M2C200-D3, WSS-M2C200-E1 HONDA MTF-III INFINITI LV MT-1 LEXUS 0888581001, JWS 2271, LV 75W MT, Transfer Gear Oil LF MINI 83 22 0 306 816, 83 22 0 397 244, MTF-LT-3 NISSAN LV MT-1 PEUGEOT 1618078480, JWS 2271, PSA B71 2310 PORSCHE 000 043 305 63, TF 0870 SEAT G 052 178, G 052 512, G 052 527, G 052 726, G 060 726, G 070 726 SKODA G 052 178, G 052 512, G 052 527, G 052 726, G 060 726, G 070 726 SUZUKI 99000-22B27-036 TOYOTA 0888581001, JWS 2271, LV 75W MT, Transfer Gear Oil LF VOLVO 31280771 VW G 052 178, G 052 512, G 052 527, G 052 726, G 060 726, G 070 726 ZOTYE GB 13895-1992

- The oil film's excellent resistance to heavy loads and high temperatures reduces operating noise.
- It is very fluid at low temperatures, making gear changes much easier when cold.
- It provides very easy gear changes for greater energy savings. It is compatible with all types of seals and materials used in manual transmissions.
- Corrosion-resistant, anti-foaming.

PROPERTIES

Density at 15°C	ASTM D4052	0.848
Viscosity at 100°C (212°F)	ASTM D445	6,44 mm²/s
Viscosity Index	ASTM D2270	134.0
Pour point	ASTM D97	-40.0 °C
Flash point	ASTM D92	227 °C

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New generation high-performance Industrial oil

HYDRA 32

KUMHO HYDRA 32,produced with quality base oils, containing high stability, anti-wear, oxidation and rust preventing additives make it rain.It is recommended for all industrial and mobile hydraulic systems. Work in special industrial applications machines, presses, moving construction equipment, plastic injection, drawing machines and air compressors.

PERFORMANCE

DIN 51524 Part II (HLP); ISO 11158 HM; US STEEL 126/127; AFNOR N FE 48603; EATON (VICKERS) I-286-S; EATON (VICKERS) M-2950-S,BOSCH REXREOTH, GMLS2,CİNCİNNATİ MİLACRON P-68, P-69, P-70, DENİSON HF-0, HF-1, HF-2

- They ensure that the system remains clean due to their high dispersant properties.
- They prevent wear, rust and corrosion.
- It has high oxidation resistance and excellent water separability.
- They do not foam and prevent cavitation because they contain anti-foam additives.

PROPERTIES

Density at 15°C	ASTM D4052	0.872
Viscosity at 100°C (212°F)	ASTM D445	5,36 mm²/s
Viscosity Index	ASTM D2270	100.0
Pour point	ASTM D97	-26.0 °C
Flash point	ASTM D92	220 °C

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New generation high-performance Industrial oil

HYDRA 46

KUMHO HYDRA 46,produced with quality base oils, containing high stability, anti-wear, oxidation and rust preventing additives make it rain.It is recommended for all industrial and mobile hydraulic systems. Work in special industrial applications machines, presses, moving construction equipment, plastic injection, drawing machines and air compressors.

PERFORMANCE

DIN 51524 Part II (HLP); ISO 11158 HM; US STEEL 126/127; AFNOR N FE 48603; EATON (VICKERS) I-286-S; EATON (VICKERS) M-2950-S,BOSCH REXREOTH, GMLS2,CİNCİNNATİ MİLACRON P-68, P-69, P-70, DENİSON HF-0, HF-1, HF-2

- They ensure that the system remains clean due to their high dispersant properties.
- They prevent wear, rust and corrosion.
- It has high oxidation resistance and excellent water separability.
- They do not foam and prevent cavitation because they contain anti-foam additives.

PROPERTIES

Density at 15°C	ASTM D4052	0.88
Viscosity at 100°C (212°F)	ASTM D445	6,66 mm²/s
Viscosity Index	ASTM D2270	100.0
Pour point	ASTM D97	-24.0 °C
Flash point	ASTM D92	235 °C

JAPAN

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New generation high-performance Industrial oil

HYDRA 68

KUMHO HYDRA 68,produced with quality base oils, containing high stability, anti-wear, oxidation and rust preventing additives make it rain.It is recommended for all industrial and mobile hydraulic systems. Work in special industrial applications machines, presses, moving construction equipment, plastic injection, drawing machines and air compressors.

PERFORMANCE

DIN 51524 Part II (HLP); ISO 11158 HM; US STEEL 126/127; AFNOR N FE 48603; EATON (VICKERS) I-286-S; EATON (VICKERS) M-2950-S,BOSCH REXREOTH, GMLS2,CİNCİNNATİ MİLACRON P-68, P-69, P-70, DENİSON HF-0, HF-1, HF-2

- They ensure that the system remains clean due to their high dispersant properties.
- They prevent wear, rust and corrosion.
- It has high oxidation resistance and excellent water separability.
- They do not foam and prevent cavitation because they contain anti-foam additives.

PROPERTIES

Density at 15°C	ASTM D4052	0.885
Viscosity at 100°C (212°F)	ASTM D445	8,71 mm²/s
Viscosity Index	ASTM D2270	100.0
Pour point	ASTM D97	-27.0 °C
Flash point	ASTM D92	240°C

JAPAN

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New generation high-performance Industrial oil

BOR OIL

KUMHO BOR OIL, multi-purpose metalworking fluid used in the processing (cutting and grinding) of various metals, mixed with water at a rate of 5%-10%. It is very suitable as a lubricant and coolant in light and heavy machining operations of metals such as aluminum and copper alloys, mild steel and cast iron, and in hot drawing of aluminum bars (non-machining). It cools excellently.

- Extends service life by reducing bacterial growth.
- Reduces scrap by extending the life of cutting tools.
- Ensures a smooth and clean machined surface by keeping chip welding under control in heavy-duty operations.
- Maintains performance even in hard water thanks to the stable emulsion it forms.
- Does not produce smoke or odor.
- Protects the system against rust and corrosion.

PROPERTIES

Density at 15°C	ASTM D4052	0.885
Viscosity at 40°C	ASTM D445	40,1 mm²/s
Refractive Index	ASTM D1218	1
Emulsion pH 20 °C (in 5% mixture with deionized water)	ASTM D1287	8,57

JAPAN

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Warning: When preparing emulsions, oil should be added to water slowly while the water in the tank is circulating. Never add water to oil. Before preparing a new emulsion, the tank must be completely emptied and cleaned. Never use plain water for emulsion additions; the necessary additions should be made with emulsion of the appropriate concentration prepared in a separate tank.

New generation high-performance Industrial oil

COMPRESSOR OIL ZN 32-46-68

KUMHO COMPRESSOR OILS, high-quality, mineral-based oil developed for screw and vane type compressors. With its superior performance additives and high-quality base oils, it more than meets the specifications of leading compressor manufacturers. It is compatible with sealing elements used in compressors.

PERFORMANCE

DIN 51506 Type VDL, DIN 54506 Type VBL, DIN 51517-1 Type C, DIN 51517-2 Type CL

- Zinc-free technology prevents sediment formation.
- Superior oxidation stability increases service life even under harsh conditions.
- Low evaporation level minimizes oil consumption.
- Provides excellent temperature stability even under high operating conditions.
- Provides high protection against rust and wear in the compressor.
- Advanced water and air separation capabilities ensure high performance.
- Extends the service life of filter elements.
- Extends oil change intervals (up to 4000 hours).

PROPERTIES

		32	46	68
Density at 15°C	ASTM D4052	0.87	0,88	0,88
Viscosity at 40°C	ASTM D445	32	46	68
Viscosity Index	ASTM D2270	102.0	101.0	100.0
Pour point	ASTM D97	-30.0 °C	-27.0 °C	24.0 °C
Flash point	ASTM D92	210°C	220°C	230°C

JAPAN

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New generation high-performance Industrial oil

MOULDING OIL

KUMHO MOLDING OIL, series of formwork oils containing special additives, used in the lubrication of aerated concrete molds and in aerated concrete cutting operations.

- Prevents concrete from sticking to the mold, ensuring smooth surfaces.
- Allows molds to be reused.
- Leaves no stains on the surface.
- Eliminates the need for mold cleaning.
- Easily applied to aerated concrete molds.

PROPERTIES

		8	22	24	26
Density at 15°C	ASTM D4052	0.884	0.9	0.9	0.88
Viscosity at 40°C	ASTM D445	9,2 mm²/s	97,1 mm²/s	136,9 mm²/s	67,72 mm²/s
Viscosity Index	ASTM D2270	98	90	90	97
Pour Point	ASTM D97	-48.0 °C	-9 °C	-9.0 °C	-20.0 °C
Flash Point	ASTM D92	175	248	260	231

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New generation high-performance Industrial oil

HEAT TRANSFER OIL 32

KUMHO HEAT TRANSFER OIL 32,produced with well-refined, paraffinic-based base oils. It has no corrosive effect on steel and copper, and has very good thermal stability and oxidation resistance. It can be safely used up to an operating temperature of 315 °C in closed systems and 200 °C in open systems. It has high specific heat and thermal conductivity. It has low evaporation and good low-temperature performance.

- High thermal stability allows operation at very high temperatures.
- High resistance to oxidation ensures a long service life.
- Despite their long lifespan, they maintain their heat transfer properties, ensuring system efficiency.
- They are resistant to degradation at high temperatures and do not form deposits.
- They provide excellent protection against corrosion.
- They facilitate operation at low temperatures.

PROPERTIES

Density at 15°C	ASTM D4052	0.88
Viscosity at 100°C (212°F)	ASTM D445	5,37mm²/s
Viscosity Index	ASTM D2270	100.0
Pour point	ASTM D97	-12.0 °C
Flash point	ASTM D92	221°C

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Industrial oil

TURBINE AND CIRCULATING OIL

KUMHO TURBINE AND CIRCULATING OIL, used in gas, steam and hydraulic turbines, air compressors, non-overpressure hydraulic systems, vacuum pumps, and for the lubrication of rolling and plain bearings.

- Maintains its fluidity at low temperatures and provides effective lubrication at high temperatures.
- Prevents deposit formation and ensures efficient operation with the help of dispersant additives.
- Prevents rust formation on metal surfaces by forming a film.
- Protects turbine bearings against varnishing with its high oxidation resistance.
- Prevents sediment formation and viscosity thickening caused by oxidation.
- Provides superior bearing and gear protection with its high wear prevention capability.
- Due to its high water separation property, it quickly separates and removes water that enters it from the system.
- Protects turbine, gear, and circulating bearing lubrication systems against rust and corrosion from corrosive effects from the environment.
- Prevents foaming by quickly expelling the air it has absorbed.
- Maintains its fluidity at low temperatures. Does not strain the pump during initial operation.
- Provides a wide range of applications in iron and steel, refinery, fertilizer, and sugar factories.

PROPERTIES

		22	32	46	68	150	220
Density at 15°C	ASTM D4052	0,860	0,873	0,878	0,883	0,891	0,895
Viscosity at 40°C	ASTM D445	22	32	46	68	150	220
Viscosity Index	ASTM D2270	100	101	98	97	93	93
Pour Point	ASTM D97	-18.0 °C	-21 °C	-18.0 °C	-18.0 °C	-6.0 °C	-6.0 °C
Flash Point	ASTM D92	190	216	234	238	270	286

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New generation high-performance Industrial oil

TRANSFORMER OIL

KUMHO TRANSFORMER OIL,used for electrical insulation and cooling in transformers and circuit breakers.

PERFORMANCE

IEC 60296: 2020 Edition 5.0

- Has low pour point and high flash pointvalues.
- Performs insulation for a long period due to its high breakage voltage characteristic.
- Ensures elongated service life with its excellent oxidation resistant.
- Dissociates from water and foreign substances fast with appropriate methods.
- Provides electrical insulation and heat transfer in a high rate.
- Doesn't contain PCB.

PROPERTIES

Density, 20 °C, kg/liter	ASTM D4052	0,860
Flash Point, COC, °C	ASTM D92	153
Viscosity, 40 °C, mm²/s	ASTM D445	9,1
Viscosity, -30 °C, mm²/s	ISO 3104	720
Water Content, mg/kg	IEC 60814	3
Breakdown Voltage, kV (After Treatment)	IEC 60156	76
DDF at 90 °C	IEC 60247	< 0,001
Pour Point, °C	ASTM D 97	-45

JAPAN

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New generation high-performance Marine oil

MARINE DIESEL OIL

KUMHO MARINE DIESEL OIL, high-performance marine diesel oil, formulated with special additive package and high quality base oils.

PERFORMANCE

API CF

- Prevents wear under extreme loads and at elevated temperatures and protects the engine.
- Neutralizes acidic combustion by-products.
- Prevents formation of soot on piston rings and ring grooves.
- Controls wear on the pistons and the piston rings and prevents formation of deposits in the engine.
- Maintains its performance at elevated temperatures with its high thermal stability.
- Provides excellent protection against rusting and corrosion.
- Prevents the adverse effects of the seawater considerably.

PROPERTIES

		10 Series		20 Series		30 Series		40 Series
SAE Viscosity Grade		**30**	**40**	**30**	**40**	**30**	**40**	**40**
Density, 15 °C, kg/liter	ASTM D4052	0,900	0,900	0,900	0,900	0,910	0,910	0,910
Flash Point, COC, °C	ASTM D92	262	262	264	264	250	250	260
Viscosity, 40 °C, mm²/s	ASTM D445	90	144	95	142	90	150	139
Viscosity Index	ASTM D2270	100	97	100	98	102	97	98
T.B.N., mgKOH/gr	ASTM D2896	12	12	22	22	32	32	41
Pour Point, °C	ASTM D97	-18	-15	-18	-15	-18	-15	-12

JAPAN

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

LITHIUM COMPLEX GREASE N0:1-1,5-2

KUMHO LITHIUM COMPLEX GREASE ,formulated using superior quality base oils and carefully selected complex thickeners.It is a pressure-resistant, long-lasting grease suitable for multi-purpose use.Iron and steel, mining, construction, chemical, automotive where high temperatures, aqueous environments, low cycles and heavy loads occur in bearing and chassis lubrications, in marine applications, in all applications including electric motors and paper machines. It shows high performance in industrial areas. EPX-2 Grease provides vibratory properties thanks to its molybdenum disulfide content.It is used with extra performance in work areas.

- It shows superior performance, especially at high temperatures.
- It prevents wear that may occur in heavy and shock-loaded environments.
- Water washing resistance is excellent.
- It provides effective protection against corrosion and rust and a long service life in the systems where it is used.

PROPERTIES

NLGI NO	-	1	1,5	2	EPX-2
COLOUR	-	Blue	Blue	Blue	Black
SOAP TYPE	-	Lithium Complex	Lithium Complex	Lithium Complex	Lithium Complex
penetration, processed, 25°C, 0.1mm	ASTM D 217	310-340	295-310	265-295	265-295
Dropping Point, °C	ASTM D 566	260	260	260	260

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New generation high-performance Greases

LITHIUM EP GREASE NO:00-0-1-2-3

KUMHO LITHIUM EP GREASE,formulated using superior quality base oils and carefully selected complex thickeners,
It is a pressure-resistant, long-lasting grease suitable for multi-purpose use.It shows superior performance, especially at high temperatures.It prevents wear that may occur in heavy and shock-loaded environments.Water washing resistance is excellent.Provides effective protection against corrosion and rust and long service life in the systems where it is used.

- It shows superior performance, especially at high temperatures.
- It prevents wear that may occur in heavy and shock-loaded environments.
- Water washing resistance is excellent.
- Provides effective protection against corrosion and rust and long service life in the systems where it is used.

PROPERTIES

NLGI NO	-	00	0	1	2	3
COLOUR	-	Open Coffee	Open Coffee	Open Coffee	Open Coffee	Open Coffee
SOAP TYPE	-	Lithium	Lithium	Lithium	Lithium	Lithium
penetration, processed, 25°C, 0.1mm	ASTM D 217	400-430	355-385	310-340	265-295	220-250
Dropping Point, °C	ASTM D 566	>170	186	196	196	196
Timken OK, lb	ASTM D 2509	50	50	50	50	50
Boiling Load, kg	ASTM D 2596	250	250	250	250	246

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New generation high-performance Greases

LITHIUM GREASE NO:1-2-3

KUMHO LITHIUM GREASE,lithium oil prepared from high quality base oil and additives, which is widely used in various industries.It is soapy grease.Automobiles, commercial and off-road vehicles, agricultural and business vehicles that do not operate under very heavy load and high temperature conditions.It is used in machine wheel bearings, central lubrication systems, ball and sliding bearings.It can also be used safely in electric motor bearings.

- It prolongs the life of the system by preventing rust and corrosion.
- It is resistant to water and oxidation and can be pumped easily.
- It prevents wear under impact and vibrating loads.
- Provides extra protection against washing with water

PROPERTIES

NLGI NO	-	1	2	3
COLOUR	-	Open Coffee	Open Coffee	Open Coffee
SOAP TYPE	-	Lithium	Lithium	Lithium
penetration, processed, 25°C, 0.1mm	ASTM D 217	310-340	265-295	220-250
Dropping Point, °C	ASTM D 566	196	196	196

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

LITHIUM MOLYBDENUM

Kumho Progress Molybdenum Grease, high-performance, multi-purpose grease containing special molybdenum additives with enhanced loadcarrying capacity and resistance to vibration and shock loads. It demonstrates superior performance in various industrial and automotive applications. It is safely used especially in the light-speed, vibrating, and heavily loaded moving parts of automobiles, trucks, tractors, offroad vehicles, and construction machinery, in wheel bearings, chassis lubrication connections, and in railway plain bearing housings and chains. It provides superior performance in systems under vibration, shock, and heavy loads. With its wear and corrosion-preventing properties, it ensures long-lasting use.

- It prolongs the life of the system by preventing rust and corrosion.
- It is resistant to water and oxidation and can be pumped easily.
- It prevents wear under impact and vibrating loads.
- Provides extra protection against washing with water

PROPERTIES

NLGI NO	-	2	3
COLOUR	-	Black	Black
SOAP TYPE	-	Lithium	Lithium
penetration, processed, 25°C, 0.1mm	ASTM D 217	265-295	220-250
Dropping Point, °C	ASTM D 566	196	196

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

New generation high-performance Greases

LITHIUM COTTON HARVESTING

Kumho Progress Cotton Haervesting Grease, high-performance, highquality lithium-based grease. It has been specifically developed for the lubrication of the harvesting shaft located in the front sections of cotton harvesting machines. It is also suitable for multi-purpose applications requiring NLGI 00. It provides effective lubrication in mechanical harvesters. It saves time by ensuring efficient operation during the harvesting period. It provides superior protection thanks to effective lubrication at the shaft heads. Semi-fluid nature ensures easy initial operation.

- Provides effective lubrication for mechanical harvesters.
- Saves time through efficient operation during the harvest season.
- Offers superior protection via effective lubrication at the shaft ends.
- Facilitates easy start-up thanks to its semi-fluid nature.

PROPERTIES

NLGI NO	**-**	**2**
COLOUR	-	Light Green
SOAP TYPE	-	Lithium
penetration, processed, 25°C, 0.1mm	ASTM D 217	400-430
Dropping Point, °C	ASTM D 566	160

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YELLOW GREASE NO:1-2-3

KUMHO YELLOW GREASE, calcium soap general purpose grease produced using high quality base oils and additives.In medium and high speed bearings that operate under mild conditions and where the operating temperature is not high, low.It is used in rotating plain bearings and chassis lubrication.

- It is water resistant and protects the system against wear and corrosion.
- It prevents the entry of foreign substances into the systems where it is used and ensures economical use.
- It provides superior performance by providing quick and effective lubrication in applications where the temperature is not high.

PROPERTIES

NLGI NO	-	1	2	3
COLOUR	-	Cream White	Cream White	Cream White
SOAP TYPE	-	Calcium	Calcium	Calcium
penetration, processed, 25°C, 0.1mm	ASTM D 217	310-340	265-295	220-250
Dropping Point, °C	ASTM D 566	105	105	105

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

RED GREASE NO:1-2-3

KUMHO RED GREASE, calcium soap general purpose grease produced using high quality base oils and additives.In medium and high speed bearings that operate under mild conditions and where the operating temperature is not high, low.It is used in rotating plain bearings and chassis lubrication.

- It is water resistant and protects the system against wear and corrosion.
- It prevents the entry of foreign substances into the systems where it is used and ensures economical use.
- It provides superior performance by providing quick and effective lubrication in applications where the temperature is not high.

PROPERTIES

NLGI NO	-	1	2	3
COLOUR	-	Red	Red	Red
SOAP TYPE	-	Calcium	Calcium	Calcium
penetration, processed, 25°C, 0.1mm	ASTM D 217	310-340	265-295	220-250
Dropping Point, °C	ASTM D 566	103	103	103

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.

GREEN GREASE NO:1-2-3

KUMHO GREEN GREASE,it is a calcium soap general purpose grease produced using high quality base oils and additives.In medium and high speed bearings that operate under mild conditions and where the operating temperature is not high, low.It is used in rotating plain bearings and chassis lubrication.

- It is water resistant and protects the system against wear and corrosion.
- It prevents the entry of foreign substances into the systems where it is used and ensures economical use.
- It provides superior performance by providing quick and effective lubrication in applications where the temperature is not high.

PROPERTIES

NLGI NO	-	1	2	3
COLOUR	-	Green	Green	Green
SOAP TYPE	-	Calcium	Calcium	Calcium
penetration, processed, 25°C, 0.1mm	ASTM D 217	310-340	265-295	220-250
Dropping Point, °C	ASTM D 566	100	100	100

We reserve the right to change the general specifications of our products in order to offer our customers the latest technological advancements.