

G-ENERGY ENGINE OIL



ADAPTATION TO ANY SITUATION

www.g-energy.org



PREMIUM ENGINE OIL LINE

G-Energy is an indicator of high technology, innovation, European quality and professional approach to the production of engine oils and lubricants. G-Energy Products are approved by leading international automobile manufacturers.

The main G-Family product range is produced at the Gazpromneft Lubricants Italia S.p.A plant located in Bari (Italy), as well as at the modern production facilities in Russia. The new complex for the lubricant production, opened at the Omsk Lubricants Plant in 2014, is one of the most modern in Russia and the CIS. The unique technologies allow producing high quality products for various types of machinery and equipment.

PRODUCTION SITES ARE CERTIFIED IN ACCORDANCE WITH THE INTERNATIONAL STANDARDS



ISO 9001



ISO 14001



OHSAS 18001



ISO/TS 16949

Gazpromneft-Lubricants is the only one Russian company certified for compliance with ISO / TS 16949 standard that allows active cooperation and product delivery to the conveyors of the global leading automobile manufacturers.

G-Energy lubricants are designed to provide the maximum protection, performance, and endurance of the engine. Every last of G-Energy products meet the requirements of the global leading automobile manufacturers, being the tools both for the best protection and for the achievement of the maximum efficiency of the power unit. Thus the consumer can be always sure that his car is ready for the maximum achievements in all operating conditions.

This brochure contains the following graphic symbols indicating application area, composition and properties of engine oils, greases and technical fluids:

APPLICATION AREA



Light Passenger cars



Gasoline engine



Minivans



Diesel engine



Offroaders



Turbocharged engine



Light trucks



Driving axles



Heavy Trucks



Hypoid gear



Special Equipment



Universal application



Automatic transmission



Mechanical transmission



CVT automatic transmission



Multi-purpose grease

COMPOSITION



Synthetic base oil 100% VHV



Lithium soap



Synthetic base oil



Lithium complex



Semi-synthetic base oil



Molybdenum disulfide



Mineral base oil



Doesn't contain nitrites



Polyethers + polyalphaolefines



Doesn't contain silicates



Doesn't contain amines



Doesn't contain phosphates

PROPERTIES



Long Life — lubricants with extended drain intervals



Mid SAPS (limited content of sulphated ash, phosphorus and sulfur)



Lubricants ensuring effective operation of the Diesel Particulate Filter (DPF)



Low SAPS (low content of sulphated ash, phosphorus and sulfur)



Oils that ensure effective operation of exhaust after treatment system (TWC)



Oils produced meeting the requirements of Asian manufacturers



Energy Conserving (EC) — lubricants with proven energy-saving properties



Anti-wear — lubricants with improved anti-wear properties



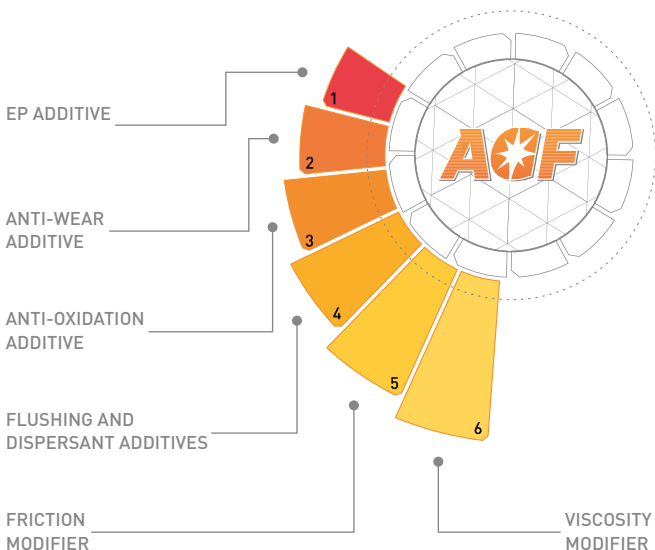
Lubricants with improved low-temperature properties



Concentrate

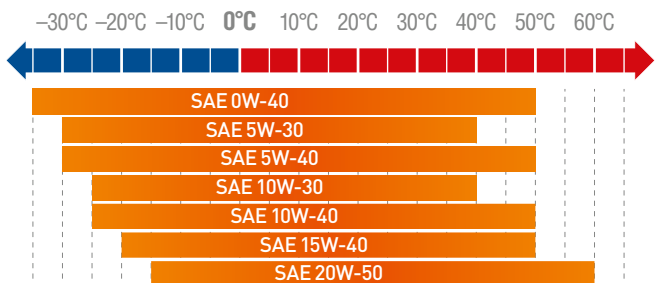
ENGINE OILS FOR PASSENGER CARS

G-Energy engine oils are designed for use in modern gasoline and diesel engines (including turbocharged). They combine high stability of properties when used in a wide temperature range with energy-saving features and extended oil drain intervals. Improved low-temperature properties allow to operate successfully in winter conditions.



The unique adaptive technology (Adaptive Components Formula) allows boosting the necessary performance characteristics of G-Energy oil depending on operating conditions of the engine, activating the necessary additives at the right time and providing maximum engine protection under all operating conditions.

TYPICAL RANGE
OF VARIOUS MULTIGRADE OIL PERFORMANCE



G-ENERGY

F SYNTH OW-40

Fully Synthetic Performance

API SM; ILSAC GF-4; ACEA A3/B4, A3/B3

Fully synthetic engine oil of the highest performance characteristics for use in modern gasoline engines of passenger cars, vans and light trucks with energy-saving properties of GF-4 level.



1 L, 4 L, 5 L, 20 L, 205 L



Application:

- designed for use in cars of American, Asian and European manufacturers demanding the lubricants of API SM and ACEA quality level;
- A3/B4, A3/B3 with energy-saving properties of ILSAC GF-2, GF-3, GF-4 levels (Porsche, Honda, Toyota, Mazda, Jeep, Acura, Dodge, Chrysler, manufactured mostly after 2006).

Benefits:

- high energy-saving properties, reduced oil consumption;
- high thermal-oxidative stability, extended service interval;
- unique low-temperature properties (easy start at ambient temperature below -40°C).

G-ENERGY

F SYNTH EC 5W-30

Secured Fuel Economy

ACEA A5/B5, A1/B1

APPROVED:
FORD WSS-M2C913-D

SPECIFICATIONS:
FORD WSS-M2C913-A/B/C; RENAULT RN0700

Fully synthetic engine oil with the highest performance characteristics with energy-saving properties.



1 L, 4 L, 5 L, 20 L, 205 L



Application:

- Ford cars engines with specifications of Ford WSS-M2C913-A/B/C/D;
- other manufacturers engines with the requirements for ACEA A5/B5, A1/B1 oils.

Benefits:

- energy-saving properties, fuel economy;
- reliable lubrication of friction pairs in continuous operation at maximum speeds and loads;
- meeting modern requirements of the global leading equipment manufacturers.

G-ENERGY

F SYNTH 5W-30

Fully Synthetic Performance

API SM/CF; ACEA A3/B4

APPROVALS:

MB 229.5; BMW LONGLIFE-01;

VW 502 00/505 00

SPECIFICATIONS:

RENAULT RN0700; GM LL-A/B-025



1 L, 4 L, 5 L, 20 L, 205 L



Application:

- BMW cars with extended service life;
- cars with Mercedes-Benz, Volkswagen, Porsche, Renault, GM engines;
- engines of other European, Asian and American manufacturers with oil requirements of ACEA A3/B4, API SM/CF.

Benefits:

- high thermal stability extends oil service life;
- large performance margin;
- low oil consumption through burning, improved low-temperature characteristics.

G-ENERGY

F SYNTH 5W-40

Fully Synthetic Performance

API SN/SM/CF; ACEA A3/B4, A3/B3

APPROVALS:

MB 229.5; VW 502 00/505 00;

BMW LONGLIFE-01

SPECIFICATIONS:

RENAULT RN0700/0710; GM LL-B-025;

PSA B71 2296



1 L, 4 L, 5 L, 20 L, 60 L, 205 L



Application:

- BMW cars with the extended service life;
- cars with Mercedes-Benz, Volkswagen, Porsche, GM, PSA, Renault engines;
- engines of the other European, Asian and American manufacturers with the oil requirements of ACEA A3/B4, API SN/SM/CF.

Benefits:

- increased service life, low oil consumption through burning due to specially selected base oils;
- high stability of viscosity-temperature properties;
- balanced composition of additives.

G-ENERGY**S SYNTH 10W-40****Effective Semisynthetic Protection**

API SL/CF; ACEA A3/B4

APPROVALS:

MB 229.1; VW 501 01/505 00

Semisynthetic engine oil with the highest performance characteristics.

**1 L, 4 L, 5 L, 20 L, 60 L, 205 L****Application:**

- recommended for use in Mercedes-Benz, Volkswagen engines (without extended service interval). Can be used in engines of other European, Asian and American manufacturers with API SL/CF requirement for oil quality.

Benefits:

- reliable engine protection under all operating conditions, increased service life of the engine;
- easy engine start at low temperatures and optimum viscosity at high temperatures;
- high thermal stability under heavy duty ensures engine cleanliness, resistance to the formation of all kinds of deposits.

G-ENERGY**S SYNTH CF 10W-40****Effective Semisynthetic Protection**

API CF; ACEA A3/B4

SPECIFICATIONS:

VW 501 01/505 00; MB 229.1

Semisynthetic engine oil with the highest performance characteristics.

**1 L, 4 L, 20 L, 205 L****Application:**

- recommended for use in diesel engines of Mercedes-Benz, Volkswagen as well as in engines of other European, Asian and American manufacturers with API CF; ACEA A3/B4 requirement for oil quality.

Benefits:

- ensures reliable operation, increase of the engine service life and the extension of oil change intervals;
- the stability of viscosity-temperature properties in a wide temperature range, resistance to the formation of all types of deposits.

G-ENERGY

EXPERT L 5W-30,
5W-40, 10W-40

Effective Semisynthetic Protection

API SL/CF; ACEA A3/B3/B4

APPROVALS: AVTOVAZ; RUSSIAN ASSOCIATION OF AUTOMOTIVE ENGINEERS.

SPECIFICATIONS:
MB 229.1; VW 501 01/505 00

Semisynthetic engine oils produced with synthetic base components and specially selected composition of additives.



1 L, 4 L, 5 L, 205 L



Application:

- recommended for use in gasoline and diesel engines (turbocharged or not) with applicable lubricants of API SL/CF type or earlier specifications.

Benefits:

- increased ability to maintain high performance properties;
- improved detergent-dispersant properties prevent the formation of different types of deposits on engine parts;
- good compatibility with various seal materials reduces the risk of oil leakage.

G-ENERGY

EXPERT G 10W-40,
15W-40, 20W-50

API SG/CD

SPECIFICATIONS:
AVTOVAZ

Universal semisynthetic (10W-40) and mineral (15W-40 and 20W-50) engine oils manufactured using quality base oil and specifically designed additive composition. It provides good anti-oxidation, anti-wear and anti-corrosion properties.



1 L, 4 L, 5 L, 60 L, 205 L



Application:

- gasoline and diesel engines (turbocharged and not) with applicable lubricants of API SG/CD type or earlier specifications;
- recommended for the cars produced by JSC "AVTOVAZ" and engines produced by JSC "ZMZ".

Benefits:

- high neutralizing properties of harmful agents of exhaust gases, increased ability to maintain high performance properties;
- improved detergent-dispersant properties prevent the formation of different types of deposits on engine parts;
- maximum service life of the engine due to stable oil film on engine parts and the use of high-performance anti-wear additives.

G-ENERGY

RACING 10W-60,
15W-50, 20W-60

G-Energy Racing 10W-60, 15W-50, 20W-60 — 100% synthetic engine oils, specially designed for professional racing use.



4 L, 20 L



Application:

- specially designed for professional racing use in various competitions as well as for everyday use in high-powered engines;
- recommended for use in all types of sports engines (gasoline, diesel, atmospheric, turbo, injector, including direct injection, carburetor).

Benefits:

- specially selected base oils composition (polyalphaolefins (PAO) and compound ethers (POE)) provide the highest breaking strength of oil film that gives the maximum anti-wear protection of engine parts;
- friction modifier content reduces energy consumption to the friction in the engine for maximum engine power throughout the load range;
- high oxidation stability maintains viscosity characteristics support throughout the operation period under high temperatures, loads and large number of incomplete combustion products entering the oil during races;
- specially selected composition allows to provide maximum power characteristics of the engine during the acceleration.

G-ENERGY**FAR EAST****0W-20, 5W-20,
5W-30, 10W-30****Fully Synthetic Performance**

API SN; ILSAC GF-5

Fully synthetic engine oils with the highest performance characteristics for the most modern gasoline engines of Asian production with the system for neutralization of exhaust gases (TWC).

**1 L, 4 L, 5 L, 20 L, 205 L****Application:**

- recommended for modern gasoline engines in passenger cars, light trucks, jeeps, minivans of Asian production and engines of other manufacturers where is required the quality type of API SN / ILSAC GF-5 or earlier API SM; SL / ILSAC GF-4; GF-3.

Special features:

- high fuel efficiency due to the use of specially selected base oils composition and additive package, including advanced friction modifiers;
- reliable protection of the inner piston surface against high temperature deposits formation;
- compatible with the most common seal materials;
- provide the resource saving.

G-BOX

CVT

SPECIFICATIONS:
MB 236.2

OPTIMAL FOR THE ORIGINAL OILS
REPLACEMENT:

NISSAN NS-2, TOYOTA TC, HONDA HMMF,
AUDI/VW TL 52180/G 052 180,
HYUNDAI GENUINE CVTF/KIA SP-III,
FORD CVT30/MERCON C/CVT23,
MITSUBISHI CVTF-J1/SP-III,
SUBARU NS-2/LINEARTRONIC CVTF,
SUZUKI TC/NS-2/CVT GREEN 1,
GM/SATURN DEX-CVT,
DODGE/JEEP NS-2/CVTF+4

Synthetic service fluid for CVT-type
transmissions based on high quality base
oils and special additive package.

Application:

- vehicles equipped with CVT-type transmissions;
- does not apply to hybrid CVT (Ford and Toyota);
- does not apply to speed automatic transmission with hydraulic torque converter.

G-BOX

ATF DX VI

LICENSE: DEXRON VI

SPECIFICATIONS: ALLISON C-4;
CAT TO-2; MB 236.5;
ZF TE ML 09

Fluid for speed automatic transmission
compliant with the latest GM
specifications with extended change
period.

Application:

- in all speed automatic transmissions where liquids are prescribed by the Dexron VI, IIH, IIIG, IIE, IID specifications, in power steering where the fluids of ATF Dexron VI type are recommended.



1 L, 4 L, 205 L



Benefits:

- unique anti-wear protection under severe operating conditions;
- improved low-temperature properties are provided with carefully selected base oils;
- stable operation of the transmission throughout the service life of the fluid;
- contains special additives that improve the thermal-oxidative stability and protect against foaming.



1 L, 10 L, 20 L, 205 L



Benefits:

- meets the rigid requirements for the service fluids used in the six-speed automatic transmissions of GM group (License Number Assigned: J-60167);
- provides extension of the drain intervals up to 160K km, in some cases up to 240K km, if it is specified in the operational manual;
- extended service life of the transmission, excellent protection against wear and corrosion, perfect low-temperature pumpability, compatibility with seal materials.

G-BOX

ATF DX III

APPROVALS:

MB 236.6; ZF TE-ML 04D, 14B, 16L, 17C;
MAN 339 TYPE Z2

SPECIFICATIONS:

DEXRON IIIH; MAN 339 TYPE V1;
ALLISON C-4 & TES 389; VOITH H55.6335;
FORD MERCON; MERCON V; VOLVO 97341

Fluid for automatic gearboxes,
transmissions, power steering.

Designed for cars, trucks, buses, off-road
vehicles with use of Dexron III level.



1 L, 20 L, 60 L, 205 L



Application:

- the speed automatic transmission where fluids of the specifications Dexron IIIH, IIIG, IID are prescribed, including ZF automatic gearboxes with the drain interval up to 60K km, and in the power steering where fluids of ATF grade are recommended.

Benefits:

- silent and smooth running, extended service life of the transmission;
- high thermal stability, energy-saving properties;
- good pumpability at low temperatures, compatibility with seal materials.

G-BOX

EXPERT ATF DX III

SPECIFICATIONS:

DEXRON IIIG; MERCON;
ZF TE-ML 04D, 09, 11B, 14A;
VOITH H55.6335; MAN 339 V1/Z1;
MB 236.1, 236.5, 236.6, 236.7, 236.11;
VOLVO CE 97340, 97341; ALLISON C-4;
GM TASA; CAT T0-2

Fluid for the automatic gearboxes,
transmissions, power steering.



1 L, 4 L, 20 L, 205 L



Application:

- designed for use in the speed automatic transmission with a torque converter where fluids of the specifications Dexron IIIG, IID are prescribed;
- power steering where fluids of ATF type are recommended.

Benefits:

- optimum frictional properties ensure smooth shifting and vibration-free operation;
- high thermal-oxidative stability ensures the maintenance of the performance properties throughout the service life of the fluid, high anti-wear and anti-corrosion properties extend the service life of the transmission;
- good pumpability at low temperatures, compatibility with seal materials.

G-BOX ATF DX II

APPROVALS:

MB 236.1; ZF TE-ML 04D, 14A, 17C;
VOITH H55.6335; MAN 339 TYPE V1&Z1

REQUIREMENTS:

DEXRON IID; FORD MERCON; CAT TQ-2;
ALLISON C-4

The service fluid for automatic gearboxes, transmissions, power steering of cars and trucks, buses, off-road equipment.



1 L, 4 L, 20 L, 205 L



Application:

- recommended for use in ZF automatic gearboxes with change period up to 30K km, in Voith gearboxes with change period up to 60K km, automatic transmissions of MB vehicles. It can also be used in other automatic transmissions where the level of Dexron II D is required.

Benefits:

- silent and smooth running, prolongation of the transmission service life;
- excellent pumpability at low temperatures;
- compatibility with seal materials, perfect protection against wear and corrosion.

G-BOX ATF FAR EAST

REQUIREMENTS:

GM DEXRON IIIH/IID; TASA; JASO M315 1A;
ALLISON C-4; FORD MERCON; MAN 339 TYPE Z1; VOITH H55.6335; ZF TE-ML 04D, 14A

OPTIMAL FOR THE ORIGINAL OILS REPLACEMENT:

TOYOTA TYPE T/T-II/T-III/T-IV; TYPE D-2;
NISSAN Matic C/D/J; MITSUBISHI SP-II/SP-III;
MAZDA ATF D-III/M-3;
DAIHATSU ALUMIX ATF MULTI;
HONDA ATF Z-1; HYUNDAI/KIA ATF;
SUBARU ATF; ISUZU BESCO ATF-II/III;
SUZUKI ATF OIL/OIL SPECIAL; GM DAEWOO

Service fluid for automatic speed transmissions with hydraulic torque converters mounted in the vehicles of Asian production.



1 L, 4 L, 20 L, 60 L, 205 L



Application:

- recommended for the most vehicles of Asian production;
- GM automatic transmissions manufactured before 2005 (Dexron III and II).

Benefits:

- silent and smooth running, extension of the transmission service life;
- high thermal stability, energy-saving properties;
- good pumpability at low temperatures, compatibility with seal materials.

G-BOX**GL-4/GL-5 75W-90**

API GL-4, GL-5, MT-1

APPROVALS:

MB 235.8;
ZF TE-ML 02B, 05B, 12B, 16F, 17B, 19C, 21B;
MAN 342 TYPE M3; MAN 341 TYPE Z2/E3

REQUIREMENTS:

SCANIA STO 1:0; ARVINMERITOR 076-N;
EATON EUROPE (TRANSMISSIONS);
MACK GO-J; MIL-L-2105D; MIL-PRF-2105E

Fully synthetic transmission oil with the highest performance properties.

**1 L, 4 L, 20 L, 60 L, 205 L****Application:**

- for the mechanical gearboxes, transfer earboxes and driving axles, including hypoid gears.

Benefits:

- wide range of application confirmed by approvals and specifications;
- universal use (the ability to use one product for all transmission units);
- increase in the oil change intervals, extended service life of the transmission.

G-BOX**GL-5 75W-90**

API GL-5

Semisynthetic transmission oil for the most loaded gears (hypoid), operating under heavy conditions.

**1 L, 4 L, 20 L, 205 L****Application:**

- specially designed to ensure reliable operation of the driving axles of vehicles with hypoid gears when working in high- and low-speed impact loads;
- recommended for use in heavy-duty units of mechanical transmissions requiring oils compliant with API GL-5.

Benefits:

- high extreme pressure properties ensure reliable gear drives operation under the most severe conditions;
- the unique low-temperature properties;
- high thermal stability, anti-wear and anticorrosive properties provide maximum service life of the transmission and the extended oil change interval.

G-BOX**GL-4 75W-90**

API GL-4

Semisynthetic transmission oil designed for use in mechanical transmission units in cars and trucks. It is manufactured on the high-quality base composition of synthetic and mineral oils with high-performance additive package. Provides a wide temperature range of use, trouble-free and long-lasting operation of transmission units.

**1 L, 4 L, 20 L, 205 L****Application:**

- mechanical transmissions, gearboxes of passenger cars, transfer gearboxes of four-wheel drive vehicles containing cylindrical, bevel and spiral-bevel gears;
- lubrication of units where oils of API GL-4 type are recommended.

Benefits:

- optimum frictional properties provide the safety of units surface and transmission units;
- excellent low-temperature properties, compatible with the materials of gaskets and seals used in modern machinery;
- high thermal stability provide extended oil change interval.

G-BOX**EXPERT GL-4
75W-90**

API GL-4

APPROVALS: MB 235.1; MAN 341 Z1;
ZF TE-ML 02B; AVTOVAZ

Semisynthetic transmission oil designed for use in mechanical transmission units of passenger cars and trucks.

**1 L, 4 L, 20 L, 205 L****Application:**

- mechanical transmissions gearboxes of passenger cars (including synchronized), transfer gearboxes of four-wheel drive vehicles with recommendations for the use of oils relevant to API GL-4.

Benefits:

- high anti-wear and anti-corrosive oil properties extend the service life of transmission;
- compatible with the materials of gaskets and seals used in modern machinery;
- optimum frictional properties ensure smooth gear shift and vibration-free operation.

G-BOX

EXPERT GL-5

75W-90

API GL-5

APPROVALS:
AVTOVAZ

Semisynthetic transmission oil for the most loaded gears of passenger cars, trucks and special equipment operating in severe conditions.



1 L, 4 L, 20 L, 205 L



Application:

- drive axles of vehicles with hypoid gears operating under high- and low-speed impact loads as well as in heavy-duty units of mechanical transmissions where oils compliant with API GL-5 are required.

Benefits:

- high anti-wear and anti-corrosive oil properties provide the maximum service life of transmission;
- compatible with the materials of gaskets and seals used in modern machinery;
- optimum frictional properties ensure smooth gear shift and vibration-free operation.

G-BOX

EXPERT GL-4

80W-85

API GL-4

APPROVALS:
MB 235.1; MAN 341 Z1; ZF TE-ML 02B, 17A;
AVTOVAZ

Multigrade transmission oil specially designed for mechanical gearboxes in front-wheel VAZ vehicles.



1 L, 4 L, 20 L, 205 L



Application:

- recommended for use in mechanical transmission of passenger cars, trucks, buses and other equipment required the oil use of GL-4 type.

Benefits:

- high antioxidant stability, excellent viscosity-temperature, antifoaming and anticorrosion properties, compatibility with seal materials used in modern machinery.

G-BOX

EXPERT GL-5

80W-90

API GL-5

APPROVALS:
AVTOVAZ

Multigrade gear oil for the most loaded gears of cars, trucks and special equipment operating in severe conditions. It is produced using the multifunctional additive package, provides high performance: excellent extreme pressure, antioxidant and viscosity-temperature properties.



1 L, 4 L, 20 L, 205 L



Application:

- designed for use in driving axles with hypoid gears and other transmission units of cars and trucks, mobile equipment, operating under various operating conditions including severe ones where oil of API GL-5 type is recommended.

Benefits:

- high thermal-oxidative stability as long as possible ensures the maintenance of the performance properties;
- high anti-wear gear properties in the most severe operating modes;
- maximum possible oil change intervals as recommended by the machinery manufacturers.

APPROVALS AND SPECIFICATIONS

APPROVALS SPECIFICATIONS	G-BOX GL-4/ GL-575W-90	G-BOX GL-4 75W-90	G-BOX GL-5 75W-90	G-BOX EXPERT GL-475W-90	G-BOX EXPERT GL-575W-90	G-BOX EXPERT GL-480W-85	G-BOX EXPERT GL-580W-90	G-BOX ATF DX VI	G-BOX ATF FAR EAST	G-BOX ATF DX III	G-BOX EXPERT ATF DX III	G-BOX ATF DX II
API												
GL-4	●	●		●		●						
GL-5	●		●		●		●					
MT-1	●											
GM												
DEXRON VI								●				
DEXRON III H										●		
DEXRON III G											●	
DEXRON II								●				●
TASA											●	
FORD												
MERCON								●		●	●	●
JASO												
M315 1A									●			
MB												
236.11											●	
236.6										●	●	
236.5								●			●	
236.1											●	●
235.8	●											
235.1				●		●						
MAN												
342 M3	●											
341 TYPE Z2/E3	●											
341 TYPE Z1				●		●						
339 TYPE V2/Z2										●		
339 TYPE V1/Z1										●	●	●
SCANIA												
STO 1:0	●											
ZF												
TE-ML 02B	●			●		●						
TE-ML 02F										●	●	●
TE-ML 03D											●	●
TE-ML 04D										●	●	●
TE-ML 05B	●											
TE-ML 09								●			●	●
TE-ML 11B										●	●	●
TE-ML 12B	●											
TE-ML 14A											●	●
TE-ML 14B										●		
TE-ML 16L										●		
TE-ML 16F	●											
TE-ML 17C										●	●	●
TE-ML 17A							●					
TE-ML 17B	●											
TE-ML 19C	●											
TE-ML 21B	●											
CAT												
T0-4										●	●	●
T0-2								●			●	
ALLISON												
C-4								●		●	●	●
MACK												
G0-J	●											
ARVINMERITOR												
076-N	●											
MIL												
L-2105D	●											
PRF-2105E	●											
VOITH												
H55.6335								●		●	●	●
RUSSIAN												
AVTOVAZ				●	●	●						

G-ENERGY FLUSHING OIL

G-Energy Flushing Oil is a high-performance flushing oil designed to flush the lubrication systems of internal combustion engines of cars without disassembly before the change of power engine oil. It cleans the crankcase, oil pump suction manifold, oil pipes and other engine parts from deposits, varnish and sludge.



4 L, 60 L, 205 L



Application:

- designed to flush the engine without disassembly before the planned oil service change or after the use of oil with low level of performance properties or exceeding of the prescribed oil change period;
- recommended for flushing the LADA engines produced by AVTOVAZ.

Benefits:

- quickly and effectively cleans engine parts from various types of deposits and mechanical impurities;
- protects engine parts during the flushing process, compatible with seal materials;
- has no impact on the performance properties of the oil filled in after the flushing.

G-ENERGY

GREASE L EP 2

Automotive multipurpose grease

DIN 51502: KP 2 K-30

Universal automotive grease based on lithium soap containing high-performance extreme pressure additives. It is used to lubricate lightly loaded friction units of passenger cars and trucks. Multipurpose grease.



400 G



Application:

- recommended for use in water pump bearings, generator bearings, control wires of throttle valves, spring shackles, swivels of steering and transmission.

Benefits:

- due to effective extreme pressure additives provides reliable protection of lubricated parts, preventing the extension of all wear types;
- excellent resistance to oxidation and corrosion, destructive effects of water.

G-ENERGY

GREASE LX EP 2

Automotive multipurpose grease

DIN 51502: KP 2 P-30

Universal grease based on lithium complex soap containing high-performance extreme pressure additives. It is used for lubrication of wheel bearings and other heavily loaded friction units.



400 G, 18 KG



Application:

- recommended for use in hub bearings of automotive wheels and other heavy-duty friction units.

Benefits:

- ensures highly effective protection against corrosion, even when operating in very harsh environments such as moisture, aggressive atmosphere, cold or hot water;
- has excellent sealing properties that helps to protect the friction units against water invasion, dirt, dust;
- has high mechanical stability, thereby it can be used for lubrication of bearings exposed to strong vibration.

G-ENERGY**GREASE L MOLY EP 2****Automotive multipurpose grease**

DIN 51502: KPF 2 K-30

Universal automotive grease based on the lithium soap containing molybdenum disulphide and high-performance extreme pressure additives. It is a multipurpose grease and is used in loaded units.

**400 G****Application:**

- designed for lubrication of rolling and sliding bearings and other heavy-duty friction units of cars and trucks.

Benefits:

- provides high performance and high load capacity under severe operating conditions due to the content of EP-additives and molybdenum disulfide;
- presence of molybdenum disulfide protects surfaces even when applying to insufficient lubrication or in specific environmental contamination;
- excellent protection against wear and seizure.

G-ENERGY**EXPERT DOT-4****REQUIREMENTS:**

FMVSS 116, ISO 4925, SAE J1703, SAE J1704, AVTOVAZ, GAZ, KAMAZ, PAZ, UAZ

High-quality brake fluid for brake and clutch system in cars where fluids compatible with DOT-4 standard are recommended.

**455 G, 910 G, 220 KG****Application:**

- Efficient at ambient temperature from -50 °C to +50° C. To use in accordance with the instructions of automakers.

Benefits:

- versatility, compliance with the requirements of manufacturers.

ANTIFREEZE LINE

G-ENERGY ANTIFREEZE

The G-Energy Antifreeze line is designed for use in cooling systems of gasoline and diesel internal combustion engines and includes three products: G-Energy Antifreeze SNF, G-Energy Antifreeze NF and G-Energy Antifreeze. Developed on the ethylene glycol basis with additive package coolants protect the cooling system of the vehicle engine against freezing, boiling, corrosion and cavitation.



Main features of coolants:

- engine cooling;
- anticorrosion protection;
- deposits prevention in the cooling system;
- reduction of cavitation (formations and collapses of vacuum bubbles in the fluid in a state close to boiling).

Main requirements to coolants:

- high heat-transfer capacity;
- stability at low-temperatures;
- non-evaporation at high operational temperatures;
- low viscosity at low temperatures;
- no corrosion impact on structural materials of the group of the radiator (aluminum, copper, solder, brass) and the group of the engine (steel, gray iron, aluminum);
- pump protection against cavitation damage;
- inertia to rubber technical goods.

G-ENERGY ANTIFREEZE SNF

Silicate Nitrite Free

MB 325.3; DEUTZ 0199-99-1115/5,
DEUTZ-MWM 0199-99-2091/8,
MAN 324 TYPE SNF, DAF 74002

REQUIREMENTS:

GM 6277M (+B040 1065); MAZDA MEZ MN
121 D; FORD WSS-M97B44-D; VW, AUDI,
SEAT, SKODA – VW TTL 774 F G12+; HITACHI,
ISUZU, JENBACHER, KOMATSU 07.892 [2007],
LIEBHERR MD1-36-130, CITROËN PSA B 71
5110, RENAULT RNUR 41-01-001/- -S TYPE
D, JAGUAR WSS-M97B44-D, LAND-ROVER
WSS-M97B44-D, MACK 014 GS 17009, VOLVO
TRUCKS 128 6083/002

G-Energy Antifreeze SNF coolant concentrate is used to make the coolants with predetermined chilling point by dilution with water. The concentrate is not used as the service coolant. Final (diluted) coolant is intended for use in the cooling systems of internal combustion engines. It is produced according to TU 2422-001-13331543-2004. G-Energy Antifreeze SNF is the coolant base on ethylene glycol, protects cooling system and engine against freezing, boiling as well as against corrosion and cavitation.



1 KG, 5 KG, 220 KG



Benefits:

- excellent miscibility;
- extended service life of coolant due to the synergetic composition of the additive package;
- improved heat transfer — the optimal operating temperature of the engine;
- reliability — stable, minimally consumable corrosion inhibitor;
- stability to earthing water — no silicates and phosphates;
- time and money saving — the coolant does not require extra service during the operation;
- convenience for mixed fleets — one coolant for cars and trucks;
- environment friendly — the use of carboxylates in the additive package has no impact on the environment when disposing.

G-ENERGY ANTIFREEZE NF

Nitrite Free

REQUIREMENTS:

BMW GS 94000; CHRYSLER MS-7170;
FIAT 9,55523; PORSCHE, AUDI, SEAT,
VW TL-774 C=G11

G-Energy Antifreeze NF coolant concentrate is used to make up the coolant with predetermined chilling point by dilution with water. The concentrate is not used as the service coolant. Final (diluted) coolant is intended for use in the cooling systems of internal combustion engines. Resource (duration) of the coolant use lasts in most cases at least 3 years, or in accordance with the recommendations of car manufacturer.



1 KG, 5 KG, 220 KG



Benefits:

- extended service life of coolant due to the synergetic composition of the additive package;
- no-failure operation extension of the cooling system components;
- reliable protection of metal components — stable corrosion inhibitor;
- stability to earthing water — no phosphates;
- convenience for mixed fleets — one coolant for cars and trucks.

G-ENERGY ANTIFREEZE

G-Energy Antifreeze coolant concentrate is used to make up the working mixture for coolants with predetermined chilling point by the dilution with water. The concentrate is not used as the service coolant. Final (diluted) coolant is intended for use in the cooling systems of internal combustion engines. Additive package formed on the basis of carboxylic acids provides the reliable and long-lasting protection against corrosion, cavitation, foaming, rubber swelling. G-Energy Antifreeze is manufactured using imported additive package. Unlike the coolants produced by the traditional technology, G-Energy Antifreeze does not contain the potentially hazardous components — nitrites and amines, being less polluting. It does not contain silicates and phosphates capable to precipitate.



1 KG, 5 KG, 220 KG



Benefits:

- improved heat transfer — the optimal operating temperature of the engine;
- reduction of repairs — thermostat, radiator and water pump;
- reliable protection of metal components — stable corrosion inhibitor;
- stability to earthing water — no silicates and phosphates;
- convenience for mixed fleets — one coolant for cars and trucks;
- environment friendly — the use of carboxylates in the additive package;
- no impact on the environment when disposing.

CHART OF COOLANT PHYSICAL CHARACTERISTICS OBTAINED BY MIXING COOLANT CONCENTRATE WITH WATER

Quantity of concentrate in solution, % Vol.	Boiling temperature, °C, atmospheric pressure	Chilling point, °C	Solidification (melting) point, °C	The level of freezing protection, °C
33	105,0	-19,3	-24,9	-20
40	106,8	-26,0	-32,5	-27
50	109,7	-37,1	-44,9	-40
60	112,8	-50,1	-59,0	-55
67	115,3	-60,3	-69,9	-65
METHOD	ASTM D1120	ASTM D1177	ASTM D97	

*-parameters given in the chart are typical for coolants.

Appendix:

- The level of freezing protection is considered to be the average temperature between the beginning of crystallization (first crystals in the liquid) and solidification.
- It is not recommended to make the coolants with concentrate content less than 33% and more than 67%. When the concentrate content is less than 33% reliable protection against corrosion cannot be guaranteed. When the concentrate content is more than 67% the chilling and melting points will increase, while the heatspreading properties of the coolant (heat capacity, thermal conductivity, viscosity) will worsen.
- In vehicles with the cooling system designed for operation at high pressure of 2.5 - 3.5 atmospheres (racing cars, dump trucks, modifications for hot environment, forced modes of engine operation, etc.) the boiling point of the coolant is higher than at atmospheric pressure. Thus the boiling point of 50% — concentrate solution is 130 °C at the pressure of 3 atmospheres.

COOLANT CHANGE INTERVALS PRESCRIBED BY VARIOUS MANUFACTURERS

OEM GROUP	OEM	SPECIFICATION	YEARS FIRST TIME	YEARS GENERAL	KM / HOURS FIRST TIME	KM / HOURS GENERAL
BMW	BMW	N 600 69.0	4	4		
CHRYSLER	CHRYSLER	MS-7170	3	3		
DAIMLER	MERCEDES-BENZ	325.0	3	3	250 000	250 000
DAIMLER	MERCEDES-BENZ	325.2	3	3		
DAIMLER	MERCEDES-BENZ	325.3	5	5		
FORD	FORD	ESD-M97B49-A	10	10	240 000	240 000
FORD	FORD	WSS-M97B44-D	10	10	240 000	240 000
FORD	JAGUAR	WSS-M97B44-D	5	5	240 000	240 000
FORD	VOLVO CARS	128 6083 / 002	5	5	5	5
GM	DAEWOO		3	3		
GM	OPEL - GM	GM 6277M	5	5	5	5
MAZDA	MAZDA	TI 13/82	4	2	100 000	
MAZDA	MAZDA	WSS-M97B44-D	5	5	5	5
MITSUBISHI	MITSUBISHI		4	4	60 000	60 000
PORSCHE	PORSCHE	TL-774 D = G 12	10	10	180 000	180 000
RENAULT	RENAULT	TYPE D	5	5	5	5
VW	AUDI	TL-774 C = G 11	3	3		
VW	AUDI	TL-774 F = G 12+	5	5	5	5
VW	VOLKSWAGEN	TL-774 D = G 12	5	5	5	5
VW	VOLKSWAGEN	TL-774 F = G 12+	5	5	5	5
VW	VOLKSWAGEN	TL-774 G = G 12++	5	5	5	5

MAIN BENEFITS OF G-ENERGY LUBRICANTS:

- **Italian production:**
Modern certified hi-tech manufacture in the Italian city of Bari.
- **Adaptive Components Formula (ACF)**
Unique adaptive technology that allows to enhance the required performance properties of lubricants, depending on the operating conditions of the engine.
- **Approvals of the world's leading automakers**
BMW, Ford, GM, Mercedes-Benz, Renault, Volkswagen.
For passenger cars in Japan and Korea there is a special G-Energy Far East line of lubricants.
- **Compatibility with other lubricants of same types at refill**

Rome Office

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