

MINISTERUL SĂNĂTĂȚII AL REPUBLICII MOLDOVA
МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ
РЕСПУБЛИКИ МОЛДОВА
AGENȚIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ
НАЦИОНАЛЬНОЕ АГЕНТСТВО ОБЩЕСТВЕННОГО
ЗДОРОВЬЯ

MD-2028, mun. Chișinău, str. Gheorghe. Asachi, 67 a
Tel. + 373 22 574501, fax + 373 22 729725
IDNO 1018601000021
e-mail: office@ansp.gov.md



DOCUMENTAȚIE MEDICALĂ / Медицинская документация
FORMULAR / Форма Nr. 303-2 e
APROBAT DE MS al RM / Утверждена МЗ РМ Nr. 828
от 31.10.11
Centrul de încercări de laborator acreditat de către Centrul
Național de Acreditare din Republica Moldova MOLDAC
Испытательный лабораторный центр аккредитованный
Национальным Аккредитационным Центром РМ MOLDAC
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2022

AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-13272/2022
Санитарное заключение для пищевых и непищевых продуктов
din/от 04 martie 2022

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования
"AD-BLUE" – soluție apoasă de uree SCR-Euro 6

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))

SF 41279445-001:2021, Indicațiilor metodice nr.341 din 15.04.2014"Metode de determinare și evaluare a unor
indici toxicologici și clinici a siguranței și inofensivității unor categorii de produse cu impact potențial asupra sănătății"

Organizația-productoare/importatoare, țara de origine / организация произв./импортёр, страна происхождения

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

AMID-AUTO S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Independenței, 42, ap./of. 20, 2072

Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /

Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, autorizație sanitară de funcționare nr.P-0616/2019 din 23.03.2019, standard de firmă, raport de încercări nr.171 din
23.09.2021, raport a încercărilor de laborator nr.732 din 03.03.2022

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы)

Normativul sanitar / санитарный норматив

conform raportului încercărilor de laborator nr.732 din 03.03.2022

Domeniu de utilizare / Область применения:

îngrijire auto – adeziv pentru motoarele diesel SCR

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения,
транспортировки, меры безопасности:

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 31.03.2025

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Nicolae Jelamschi

Digitally signed by Nicolae Jelamschi
Date: 2022.03.04 13:37:45 EET
Reason: MoldSign Signature
(www.moldsign.gov.md)



(semnătura / подпись)

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ANSP/HAO3



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10-XVI-09

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MINISTERUL SĂNĂTĂȚII AL REPUBLICII MOLDOVA
МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ
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от 31.10.11
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Național de Acreditare din Republica Moldova MOLDAC
Испытательный лабораторный центр аккредитованный
Национальным Аккредитационным Центром РМ MOLDAC
Certificat nr. LÎ-044 din 17.02.2018 valabil până la 16.02.2026

AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-17027/2023
Санитарное заключение для пищевых и непищевых продуктов
din/от 14 aprilie 2023

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается что производство, ввоз, использование и реализация продукции / оборудования
Soluție de spălat parbriz "IARNA" -20 C, -30 C; Soluție de spălat parbriz "VARA", lichid pentru aprinderea focului

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a
Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов))
SF 41279445-001:2020, IT MD 41279445-001:2020, SM GOST R 51696:2003 Produse chimice de uz casnic

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

AMID-AUTO S.R.L. , Republica Moldova, mun. Chișinău, sec. Botanica, str. Independenței, 42, ap./of. 20

Temei pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit /

Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, autorizație sanitară de funcționare, standard de firmă, instrucțiune tehnologică, rețeta, raport de încercări nr.69 din
17.05.2022, rapoarte a încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023
(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы)

Normativul sanitar / санитарный норматив

conform rapoartelor încercărilor de laborator nr.51007043-51007046 din 06.04.2023, din 11.04.2023

Domeniu de utilizare / Область применения:

întreținere auto

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения,
транспортировки, меры безопасности:

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova

AVIZUL SANITAR este valabil pînă la / Санитарное заключение действительно до: 30.04.2026

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Digitally signed by Jelamschi Nicolae
Date: 2023.04.14 11:46:18 EEST
Reason: MoldSign Signature
Location: Moldova

Nicolae Jelamschi





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MINISTERUL SĂNĂTĂȚII
AL REPUBLICII MOLDOVA

МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ
РЕСПУБЛИКИ МОЛДОВА

AGENȚIA NAȚIONALĂ PENTRU SĂNĂTATE PUBLICĂ
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Centrul de încercări de laborator acreditat de către
Centrul Național de Acreditare din Republica Moldova MOLDAC
Испытательный лабораторный центр аккредитованный
Национальным Акредитационным Центром РМ MOLDAC
Certificat nr. LI-044 din 17.02.2018 valabil până la 16.02.2022

AVIZ SANITAR
PENTRU PRODUSELE ALIMENTARE ȘI NEALIMENTARE Nr. P-11900/2021

Санитарное заключение для пищевых и непищевых продуктов

din/om "12"

octombrie

a.2. 2021

Prin prezentul aviz sanitar se confirmă că producerea, importul, utilizarea și desfacerea produselor / echipamentelor
Настоящим санитарным заключением подтверждается, что производство, ввоз, использование и реализация продукции / оборудования

Lichid pentru sisteme SCR (euro 4, euro 5)

sunt conforme Regulamentului (lor) sanitar (e) / соответствуют санитарному (ым) регламенту (ам) (se va indica denumirea completă a Regulamentului (lor) sanitar (e) / указать полное наименование санитарного (ых) регламента (ов)

SF 41279445-001:2021, IT MD 41279445-001:2021, Rț MD 41279445-001:2021, Indicațiilor metodice nr.341 din 15.04.2014 "Metode de determinare și evaluare a unor indici toxicologici și clinici a siguranței și inofensivității unor categorii de produse cu impact potențial asupra sănătății"

Organizația-producătoare/importatoare, țara de origine / организация произв./импортер, страна происхождения

"AMID-AUTO" SRL, Republica Moldova

Destinatarul avizului sanitar / получатель санитарного заключения

"AMID-AUTO" SRL, Moldova, Chișinău, str. Independenței, 42, ap.20

Ca temel pentru recunoașterea conformității produselor Regulamentului (lor) sanitar (e) menționat (e) a servit / Основанием для признания продукции указанному (ым) санитарному (ым) регламенту (ам) послужило

Demers, autorizație sanitară de funcționare nr.003895/2019/1955 din 31.07.2021, standard de firmă, instrucțiune tehnologică, rețeta, raport a încercărilor de laborator nr.6555 din 04.10.2021

(a enumera documentele de însoțire, buletinele de analiză / перечислить сопроводительные док., протоколы исслед.)

Caracteristica sanitară a produselor / санитарная характеристика продукции:

Parametrii (factorii) / показатели (факторы)

Normativul sanitar / санитарный норматив

conform raportului încercărilor de laborator nr.6555 din 04.10.2021

Domeniu de utilizare / Область применения:

îngrijire auto

Condițiile necesare de utilizare, depozitare, transportare, măsurile de securitate / Необходимые условия использования, хранения, транспортировки, меры безопасности:

producerea, plasarea pe piață în condițiile respectării legislației în vigoare în Republica Moldova
AVIZUL SANITAR este valabil pînă la / Санитарное Заключение действительно до: 30 octombrie 2024

DIRECTORUL AGENȚIEI NAȚIONALE PENTRU SĂNĂTATE PUBLICĂ

Int.

Vasile GUȘTIUC

(numele, prenumele/ Ф.И.О.)

(semnătura / подпись)



ANSP/HAO3

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SP 10-XVI-09

ex:Șt.Constantinoviți
tel: 574 529

SAFETY DATA SHEET

Prepared according to the European Commission Regulations (EU) 2020/878

PRODUCT: Active foam "Standart 1:3" Master's Line

Date of filling: 17 03 2023

Last revision date: –

Version: 1

Page 1 of 11

SAFETY DATA SHEET**1. Identification of the substance/mixture and of the company/ undertaking****1.1 Product identifier**

Product name: Active foam "Standart 1:3" Master's Line

Mixture a unique formula identifier (UFI): 2890-C0CT-000K-XJUW

1.2 Relevant identified uses of the substance or mixture and used advised against

Relevant identified uses: Car body foam. For use by consumers.

Uses advised against: No data available.

1.3 Information about the manufacturer

Name: ArtHim LLC _

Ternopil'ska, 17/2a, Khmel'nitsky, Ukraine

Tel. /fax : +38 0382 72-55-18

E-mail: office@helpix.ua

1.4 Emergency Telephone Number

The State Medicines Control Agency (SMCA), Poison Information Bureau (PIB) (Lithuania)

Tel. No.: +370 5 236 20 52

Biroul RSI si Informare Toxicologica (Romania)

Tel. No.: +40 021 318 3606

2. Types of hazardous effects and conditions for their occurrence**2.1 Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1A; H314

Eye Dam. 1; H318

2.1.2. Additional information:

Full text of H phrases, hazard and EU hazard statements in Section 16.

2.2 Label elements

2.2.1 Label according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



Signal word: **Danger.**

SAFETY DATA SHEET

Prepared according to the European Commission Regulations (EU) 2020/878

PRODUCT: Active foam "Standart 1:3" Master's Line

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Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental Hazard information (EU): None.

2.3 Other hazards

The product does not meet the criteria for a PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

3. Composition/Information on ingredients**3.1 Substances**

Not applicable (the product is a mixture).

3.2 Mixtures

Substance	CAS No.	EC/List No.	Classification:	Concentration (%)
			According Regulation EC No. 1272/2008	
Etidronic acid	2809-21-4	220-552-8	Skin Corr. 1B; H314 Eye Dam. 1; H318	4-5
Sodium hydroxide	1310-73-2	215-185-5	Skin Corr. 1A; H314 (Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %)	6.5-7.5
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	931-534-0	Skin Irrit. 2; H315 Eye Dam 1; H318	1.5-2.5
Sodium dodecyl sulphate	151-21-3	205-788-1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam 1; H318	3.5-4.5
Propan-2-ol	67-63-0	200-661-7	Flam. Liq. 2; H225	2.5-3.5

SAFETY DATA SHEET

Prepared according to the European Commission Regulations (EU) 2020/878

PRODUCT: Active foam "Standart 1:3" Master's Line

Date of filling: 17 03 2023

Last revision date: –

Version: 1

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			Eye Irrit. 2; H319 STOT SE 3; H336	
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Additional information: For full text of H-statements: see section 16.

4. First aid measures

4.1 Description of first aid measures

General information. Get medical attention immediately.

Following skin contact. Get medical attention immediately. Immediately rinse skin with water/shower.

Following eye contact. Get medical attention immediately. Immediately wash eyes with plenty of water.

Following inhalation. Move to fresh air. Call a physician if symptoms develop or persist.

Following ingestion. Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

Self-protection of the first aider: To care for their own safety!

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

5. Firefighting measures

General fire hazards. Clear fire area of all non-emergency personnel.

5.1 Extinguishing media

Suitable extinguishing media. Depending on the fire environment (water spray, foam, dry chemical powder or carbon dioxide (CO₂)).

Unsuitable extinguishing media. Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazard arising from the substance of mixture

Upon decomposition, this product emits carbon monoxide, carbon dioxide and etc.

5.3 Advice for firefighters

Special protective equipment for fire-fighters. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

Special fire-fighting procedures. Do not breathe fire released materials. Move containers away from fire area, if it can be done without risk. Use water mist cooling unopened containers. Cooling tanks pouring sufficient water and fire go out. Prevent the material from entering the drainage system, surface waters.

6. Accidental release measures

SAFETY DATA SHEET

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2020/878

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6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.

For emergency responders. Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2 Environmental precautions

Prevent contamination of soil and water. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Prevent vapour cloud. Prevent further leakage or spillage if safe to do so. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling. Put on appropriate personal protective equipment (see Section 8). Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Advice on protection against fire and explosion. Keep away from heat. Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers closed when not in use. Do not store in direct sunlight. Store at ambient temperature and atmospheric pressure.

7.3 Specific end use(s)

Car body foam

8. Exposure Controls/Personal Protection**8.1 Control parameters**

Occupational exposure limits. No occupational exposure limits noted for the ingredient(s).

Biological limit values. No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures. Follow standard monitoring procedures.

8.2 Exposure controls

General information: Do not eat, drink, smoke at the workplace. Wash hands before breaks and after work.

APPROPRIATE ENGINEERING CONTROLS

SAFETY DATA SHEET

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PRODUCT: Active foam “Standart 1:3” Master’s Line

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Provide adequate general and local exhaust ventilation.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

General information. Use personal protective equipment as required. Keep working clothes separately. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection. Wear protective goggles with side-shields according to EN 166.

Skin protection. Wear protective work clothing.

Hand protection. When contact is likely, appropriate wrist long chemical resistant gloves (EN 374).

Respiratory protection. General ventilation normally adequate. In case of inadequate ventilation or risk of inhalation of vapour, suitable respiratory equipment (breathing mask). Seek advice from local supervisor (EN 149).

Thermal hazards. Not applicable.

Hygiene measures. Handle in accordance with good industrial hygiene and safety practices. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

8.3 Environmental exposure controls

Contain spills and prevent releases, and observe national regulations on emissions.

9. Physical and chemical properties

PHYSICAL STATE:	liquid
COLOUR:	yellow
ODOUR:	of used materials
MELTING POINT/FREEZING POINT:	not evaluated
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE:	not evaluated
FLAMMABILITY (SOLID, LIQUID, GAS):	not flammable
FLASH POINT:	not applicable
AUTO-IGNITION TEMPERATURE:	not applicable
DECOMPOSITION TEMPERATURE:	not evaluated
pH:	12
KINEMATIC VISCOSITY:	not evaluated
SOLUBILITY:	not evaluated
PARTITION COEFFICIENT (N-OCTANOL/WATER):	not evaluated
VAPOUR PRESSURE:	not evaluated
DENSITY AND/OR RELATIVE DENSITY:	1.2 g/ml (20 °C)
RELATIVE VAPOUR DENSITY:	not evaluated
PARTICLE CHARACTERISTICS:	not applicable

9.2 Other information

SAFETY DATA SHEET

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9.2.1 Information with regard to physical hazard classes

None.

9.2.2 Other safety characteristics

No additional information.

10. Persistence and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability

Stable at normal conditions.

10.3 Possibility of hazardous reactions

No additional information.

10.4 Conditions to avoid

High temperatures and sources of ignition.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

In case of fire, may produce hazardous fumes like carbon monoxide, carbon dioxide and etc.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity: No information available for the product.

Information on ingredients:

Etidronic acid, CAS No. 2809-21-4:

Acute Oral Toxicity: LD50 – 3130 mg/kg (rat);

Acute Dermal Toxicity: LD50 – >5000 ml/kg/24h (rabbit).

Sodium hydroxide, CAS No. 1310-73-2:

Acute Oral Toxicity: LD50 – 325 mg/kg (rabbit);

Acute Inhalation Toxicity: LC50 – 750 µg/l/2h (aerosol) (rat).

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts, CAS No. 68439-57-6:

Acute Oral Toxicity: LD50 – 2290 mg/kg (rat);

Acute Inhalation Toxicity: LC50 – >52 mg/l/4h (aerosol) (rat);

Acute Dermal Toxicity: LD50 – 6300 mg/kg/24h (rabbit).

Sodium dodecyl sulphate, CAS No. 151-21-3:

Acute Oral Toxicity: LD50 – 1200 mg/kg (rat);

Acute Dermal Toxicity: LD50 – >2000 mg/kg/24h (rat).

SAFETY DATA SHEET

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2020/878

PRODUCT: Active foam "Standart 1:3" Master's Line

Date of filling: 17 03 2023

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Propan-2-ol, CAS No. 67-63-0:

Acute Oral Toxicity: LD50 – 5.84 g/kg (rat);

Acute Inhalation Toxicity: LC50 – 5000 ppm/6h (vapour) (rat);

Acute Dermal Toxicity: LD50 – 16.4 mg/kg/24h (rabbit).

Skin corrosion/irritation. May cause severe skin burns.

Serious eye damage/eye irritation. May cause serious eye damage.

Respiratory or skin sensitisation. Not classified.

Germ cell mutagenicity. Not classified.

Carcinogenicity. Not classified.

Reproductive toxicity. Not classified.

STOT – single exposure. Not classified.

STOT – repeated exposure. Not classified.

Aspiration hazard. Not classified.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

None.

11.2.2 Other information

No data available.

12. Ecological information

12.1 Toxicity

No information available for the product.

Information on ingredients:

Etidronic acid, CAS No. 2809-21-4:

LC50 for marine water fish: 2180 mg/l/96h (Cyprinodon variegatus);

NOEC: 60 mg/l/14d (Oncorhynchus mykiss);

EC50 for marine water invertebrates: 1770 mg/l/48h (Palaemonetes pugio);

NOEC: 6.75 mg/l/28d (Daphnia magna);

EC50 for freshwater algae: 12 mg/l/96h.

Sodium hydroxide, CAS No. 1310-73-2:

LC50 for freshwater fish: 35-189 mg/l;

EC50 for freshwater invertebrates: 30-1000 mg/l.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts, CAS No. 68439-57-6:

LC50 for freshwater fish: 4.2 mg/l/96h (Danio rerio);

EC50 for freshwater invertebrates: 4.53 mg/l/48h (Ceriodaphnia dubia);

EC50 for marine water invertebrates: 2.08 mg/l/48h (Acartia tonsa);

NOEC: 2.42 mg/l/21d (Daphnia magna);

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EC50 for marine water algae: 1.97 mg/l/72h (*Skeletonema costatum*);
EC10 or NOEC for marine water algae: 6.25 mg/l/72h (*Skeletonema costatum*).

Sodium dodecyl sulphate, CAS No. 151-21-3:

LC50 for freshwater fish: 29 mg/l/96h (*Pimephales promelas*);
LC50 for marine water fish: 4.1 mg/l/96h (*Cyprinodon variegatus*);
NOEC: ≥ 1.36 mg/l/42d (*Pimephales promelas*);
EC50 for freshwater invertebrates: 5.55 mg/l/48h (*Ceriodaphnia dubia*);
EC50 for marine water invertebrates: 3.15 mg/l/48h (*Artemia salina*);
NOEC: 0.88 mg/l/7d (*Ceriodaphnia dubia*);
EC50 for freshwater algae: 120 mg/l/72h (*Desmodesmus subspicatus*);
EC10 or NOEC for freshwater algae: 30 mg/l/72h (*Desmodesmus subspicatus*).

Propan-2-ol, CAS No. 67-63-0:

LC50 for freshwater fish: 9640 mg/l/96h (*Pimephales promelas*);
NOELR: >1000 mg/l/28d (*Danio rerio*);
EC50 for freshwater invertebrates: >10000 mg/l/24h (*Daphnia magna*);
NOELR: >1000 mg/l/21d (*Daphnia magna*);
LC3 for freshwater algae: 1800 mg/l/7d (*Scenedesmus quadricauda*).

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

Mobility. No data available.

12.5 Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No known significant effects or critical hazards.

13. Disposal consideration**13.1 Waste treatment methods**

Residual waste. Dispose of contents/container with local/regional/national/international regulations.

Contaminated packaging. No data available.

EU waste code. No data available.

Disposal methods/information. Review federal, state/provincial, and local government requirements prior to disposal.

14. Transport information

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Transport only in accordance with ADR for road haulage, RID for rail transportation, ADN/IMDG for carriage by vessel/sea and IATA for carriage by air.

14.1 UN number or ID number. None.

14.2 UN proper shipping name. None.

14.3 Transport hazard class (es). None.

14.4 Packing group. None.

14.5 Environmental hazards. No.

14.6 Special precautions for user. Before use read the safety instructions in the safety data sheet and emergency procedures.

14.7 Maritime transport in bulk according to IMO instruments. Not applicable.

15. Regulatory information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

– Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);

– COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);

– REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (OJ L 104/1, 8.4.2004, p.001-0035);

– The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

16. Other information

16.1 Indication of changes

Information contained in the Regulation 1907/2006/EC with the Regulation 2020/878.

Indication of changes: –

Date of filling: 17-03-2023

Revision: –

Version No.: 1

16.2 Full text of hazard and precautionary statements

H225 Highly flammable liquid and vapour.

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2020/878

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H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental label information: None.

Abbreviations:

Flam. Liq. 2 – Flammable liquids; Hazard Category 2.
Acute Tox. 4 – Acute toxicity (oral); Hazard Category 4.
Skin Corr. 1A – Skin corrosion; Hazard Sub-category 1A.
Skin Corr. 1B – Skin corrosion; Hazard Sub-category 1B.
Skin Irrit. 2 – Skin irritation; Hazard Category 2.
Eye Dam. 1 – Serious eye damage; Hazard Category 1.
Eye Irrit. 2 – Eye irritation; Hazard Category 2.
STOT SE 3 – Specific target organ toxicity after single exposure; Hazard Category 3.

Acronyms:

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
IMDG – International Maritime Dangerous Goods.
IATA – International Air Transport Association.
ICAO – International Civil Aviation Organization.
IMO – International Maritime Organization.
vPvB – Very Persistent and Very Bioaccumulative.
PBT – Persistent, Bioaccumulative and Toxic substance.

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LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50 – Lethal Concentration to 50 % of a test population.

EC50 – Effective concentration to 50% of a test population (Half maximal effective concentration).

IC50 – Inhibitory concentration to 50% of a test population (Half maximal inhibitory concentration).

CAS – Chemical Abstracts Service number.

CEN – European Committee for Standardization.

STOT – Specific Target Organ Toxicity.

DNEL – Derived No-Effect Level.

PNEC – Predicted No Effect Concentration.

NOEC – No effect concentration.

STEL – Short Term Exposure Limit.

TWA – Time Weighted Averages.

SDS – Safety Data Sheet.

KEY LITERATURE REFERENCES AND SOURCES FOR DATA:

- The data provided by the European Chemicals Bureau (ECB), European Chemicals Agency (ECHA), Swedish Chemicals Agency (KEMI), International Laboratories Organization (ILO), the TOXNET Internet pages.

Disclaimer

Information is correct to the best of our knowledge at the date of the SDS publication. It is not a specification sheet nor should any displayed data be construed as a specification. The information on this SDS was obtained from sources which we believe are reliable. However, the information is provide without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is use as a component in another product, this SDS information may not be applicable.

Form No.: 003-EN
Issue date: 10.12.2022

CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

From: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 202306829
Date of issue: 14/06/2023

Test sample

Product: AVTOIL 10W40 CI-4/ SL
Material ID: M0000142
Date of sampling: 14/06/2023

Manufacture date: 14/06/2023
Batch number: 2306829
Tank ID: T41.1

Test result

Date of analysis: 14/06/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	14.03	12.5-16.3	ASTM D445	Pass
Viscosity index	-	147	Min. 140	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	222	Min. 210	ASTM D92	Pass
Pour Point	°C	-33	Max. -30	ASTM D97	Pass
Color	-	2.4	Test & Report	ASTM D1500	Pass
TBN.	mg KOH/g	9.48	Min. 9.0	ASTM D2896	Pass
Density at 20 °C	g/cm ³	0.8668	Test & Report	ASTM D4052	Pass

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
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Head of Laboratory



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From: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 202306900
Date of issue: 21/06/2023

Test sample

Product: AVTOIL 10W40 SG/CD
Material ID: M0000166
Date of sampling: 21/06/2023

Manufacture date: 21/06/2023
Batch number: 2306900
Tank ID: T41.1

Test result

Date of analysis: 21/06/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	14.10	12.5-16.3	ASTM D445	Pass
Viscosity index, min.	-	139	Min. 125	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, min.	°C	224	Min. 205	ASTM D92	Pass
Pour Point COC, max.	°C	-35	Max. -35	ASTM D97	Pass
Color	-	1.4	Test & Report	ASTM D1500	Pass
Density at 20 °C, max.	g/cm ³	0.8633	Test & Report	ASTM D4052	Pass

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

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From: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 202307986
Date of issue: 06/07/2023

Test sample

Product: AVTOIL 15W40 SG/CD
Material ID: M0000168
Date of sampling: 06/07/2023

Manufacture date: 06/07/2023
Batch number: 2307986
Tank ID: T41.1

Test result

Date of analysis: 06/07/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	14.79	12.5-16.3	ASTM D445	Pass
Viscosity index, min.	-	135	Min. 120	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, min.	°C	232	Min. 210	ASTM D92	Pass
Pour Point COC, max.	°C	-33	Max. -30	ASTM D97	Pass
Color	-	2.3	Test & Report	ASTM D1500	Pass
Density at 20 °C, max.	g/cm ³	0.8783	Test & Report	ASTM D4052	Pass

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

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Company: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 2024178
Date of issue: 03/02/2024

Test sample

Product: AVTOIL 80W90 GL-5
Batch number: 2402178
Tank ID: T41.4

Manufacture date: 03/02/2024
Date of sampling: 03/02/2024
Date of analysis: 03/02/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	13.50-18.50	14.56	Pass
Viscosity index	-	ASTM D2270	Min. 90	94	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 210	240	Pass
Pour Point	°C	ASTM D97	Max. -18	-21	Pass
Color	-	ASTM D1500	Test & Report	3.5	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8865	Pass

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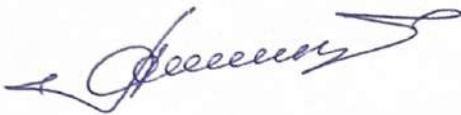
Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

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Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer



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From: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 2023071024
Date of issue: 07/07/2023

Test sample

Product: AVTOIL INDUSTRIAL HYDRAULIC I-20A
Material ID: M0000174
Date of sampling: 07/07/2023

Manufacture date: 07/07/2023
Batch number: 23071024
Tank ID: T41.2

Test result

Date of analysis: 07/07/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 40 °C	mm ² /s	30.12	29.0-35.0	ASTM D445	Pass
Viscosity index	-	99	Test & Report	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	226	Min. 200	ASTM D92	Pass
Pour Point	°C	-18	Max. -15	ASTM D97	Pass
Color	-	0.3	Max. 1.0	ASTM D1500	Pass
Density at 20 °C	g/cm ³	0.8677	Max. 0.890	ASTM D4052	Pass

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

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Head of Laboratory

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From: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 202306896
Date of issue: 19/06/2023

Test sample

Product: AVTOIL INDUSTRIAL HYDRAULIC I-40A
Material ID: T0000174
Date of sampling: 19/06/2023

Manufacture date: 19/06/2023
Batch number: 2306896
Tank ID: T41.2

Test result

Date of analysis: 19/06/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	64.64	61.0-75.0	ASTM D445	Pass
TAN	mg KOH/g	0.006	Max. 0.05	ASTM D974	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	230	Min. 220	ASTM D92	Pass
Pour Point	°C	-18	Max. -15	ASTM D97	Pass
Color	-	2.1	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm ³	0.8707	Max. 0.900	ASTM D4052	Pass

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

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From: ALCO LLC
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AZ1095, Baku, Azerbaijan

Certificate No.: 202307995
Date of issue: 07/07/2023

Test sample

Product: AVTOIL M-10G2K
Material ID: M00056
Date of sampling: 07/07/2023

Manufacture date: 07/07/2023
Batch number: 2307995
Tank ID: T41.1

Test result

Date of analysis: 07/07/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C, min.	mm ² /s	11.23	10.5-11.5	ASTM D445	Pass
Viscosity index	-	97	Min. 85	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	248	Min. 210	ASTM D92	Pass
Pour Point	°C	-18	Max. -15	ASTM D97	Pass
Color, with a dilution of 15:85, units of the CNT	-	0.9	Max. 4.0	ГОСТ 20284	Pass
Density at 20 °C	g/cm ³	0.8865	Max. 0.905	ASTM D4052	Pass

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

Notes & Instructions:

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Company: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 2024201
Date of issue: 07/01/2024

Test sample

Product: AVTOIL T 1500
Batch number: 2402201
Tank ID: T61.1

Manufacture date: 07/01/2024
Date of sampling: 07/01/2024
Date of analysis: 07/01/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity -at 40°C -at 50°C -at 100°C	mm ² /s	ASTM D445	- Max. 8.0 -	10.47 7.60 2.56	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Mechanical impurities	%	ASTM D 4807	None	None	Pass
Closed Cup Flash Point	°C	ASTM D93	Min. 135	143	Pass
Pour Point	°C	ASTM D97	Max. -45	-45	Pass
TAN	mg KOH/g	ASTM D974	Max. 0.01	0.007	Pass
Color	-	ASTM D1500	Max. 1.5	0.5	Pass
Dielectric dissipation factor at 90°C	%	IEC 60247	Max. 0.50	0.20	Pass
Dielectric Breakdown Voltage	kV	IEC 60156	Min. 30	60.6	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Max. 0.885	0.8822	Pass

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Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

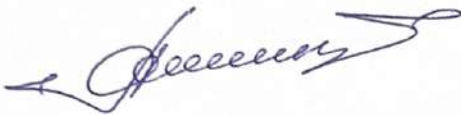
This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

Quality Assurance Laboratory
 Address: 1, Kimyachilar st., SCIP., Sumgait, Azerbaijan, AZ5002
 Email: lab@azlub.com

Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

Authorised singnatory



Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer



Form No.: 003-EN
Issue date: 10.12.2022

CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

From: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 202306871
Date of issue: 15/06/2023

Test sample

Product: AVTOIL TAD 17
Material ID: T000178
Date of sampling: 15/06/2023

Manufacture date: 15/06/2023
Batch number: 2306871
Tank ID: T41.4

Test result

Date of analysis: 15/06/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm ² /s	17.77	Min. 17.50	ASTM D445	Pass
Viscosity index	-	93	Min. 90	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	234	Min. 200	ASTM D92	Pass
Pour Point	°C	-30	Max. -30	ASTM D97	Pass
Density at 20 °C, max.	g/cm ³	0.8914	Test & Report	ASTM D4052	Pass

Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

Authorised singnatory



Matilda Yusifova
Head of Laboratory

	<p style="text-align: center;">ALCO QUALITY ASSURANCE LABORATORY TEST REPORT</p> <p style="text-align: center;">Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21</p>	
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Company: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 202416
Date of issue: 05/01/2024

Test sample

Product: AVTOIL TAP-15B SAE 90 GL-3
Batch number: 2401016
Tank ID: T41.3

Manufacture date: 05/01/2024
Date of sampling: 05/01/2024
Date of analysis: 05/01/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	14.00-16.00	15.19	Pass
Viscosity index	-	ASTM D2270	Min. 90	93	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 185	254	Pass
Pour Point	°C	ASTM D97	Max. -20	-20	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8872	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

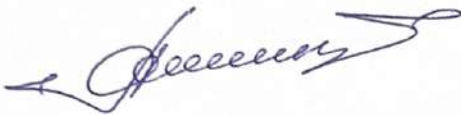
Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
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Authorised signatory



Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer



	<p style="text-align: center;">ALCO QUALITY ASSURANCE LABORATORY TEST REPORT</p> <p style="text-align: center;">Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21</p>	
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Company: ALCO LLC
3, Vali Mammadov st., Sabail dist.
AZ1095, Baku, Azerbaijan

Certificate No.: 2024165
Date of issue: 01/02/2024

Test sample

Product: AVTOIL 5W30 SN/CF
Batch number: 2402165
Tank ID: T41.4

Manufacture date: 01/02/2024
Date of sampling: 01/02/2024
Date of analysis: 01/02/2024

Test result

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C	mm ² /s	ASTM D445	9.30-12.50	10.51	Pass
Viscosity index	-	ASTM D2270	Min. 140	151	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 210	226	Pass
Pour Point	°C	ASTM D97	Max. -36	-39	Pass
TBN	mg KOH/g	ASTM D2896	Min. 7.0	8.78	Pass
Color	-	ASTM D1500	Test & Report	2.5	Pass
Density at 20 °C	g/cm ³	ASTM D4052	Test & Report	0.8623	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

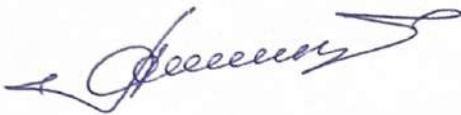
Shelf life: 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

Notes & Instructions:

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

Authorised singnatory



Allahverdiyeva Aytan
Head of Laboratory



Isgandarli Nazrin
Chemical Engineer





Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Черновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 23-5844/1

**Жидкость охлаждающая
низкозамерзающая марки А-38 желтый
Антифриз Ст11
ТУ У 24.6-14215951-001:2010 зі змінами 1-6**

Партия №: 23-769-01
Масса нетто, кг вказано на каністрі

Дата фасовки
Вид и тип тары

08.12.2023
кан п/е 10л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу -эталоны	Соответствует	ТУ У 24.6-14215951-001:2010 п.6.3
2	Плотность при температуре 20 °С, г/см ³ , не меньше	1.060	1,073	ДСТУ 7261:2012
3	Температура начала кристаллизации, °С, не выше	-36	-36,0	ТУ У 24.6-14215951-001:2010 п.6.5
4	Фракционный состав: Температура начала перегонки, °С, не ниже	100	108,0	ТУ У 24.6-14215951-001:2010 п.6.6
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	52,0	
5	Коррозионное воздействие на металлы г/м2 сут., не больше*			ТУ У 24.6-14215951-001:2010 п.6.7
	<input type="checkbox"/> алюминий	0.1	0,08	
	<input type="checkbox"/> чугун	0.1	0,07	
	<input type="checkbox"/> сталь	0.1	0,06	
	<input type="checkbox"/> медь	0.1	0,05	
	<input type="checkbox"/> латунь	0.1	0,06	
	<input type="checkbox"/> припой	0.2	0,12	
6	Вспениваемость: <input type="checkbox"/> Объем пены, см3 не больше	30	0	ТУ У 24.6-14215951-001:2010 п.6.8
	<input type="checkbox"/> Стойкость пены, с, не больше	3	0	
7	Набухание резины, %, не больше	5	0,9	ТУ У 24.6-14215951-001:2010 п.6.9
8	Водородный показатель(рН), при 20 °С	7.5 -11.0	8,6	ТУ У 24.6-14215951-001:2010 п.6.10
9	Щелочность, см3 раствора КОН, не меньше	не нормується	6,3	ТУ У 24.6-14215951-001:2010 п.6.11
10	Температура застывания, °С, не выше	-39	-40	ТУ У 24.6-14215951-001:2010, п.6.13

*Согласно протокола периодических испытаний № 23-68 п.и от 02.11.2023

Гарантийный срок хранения – 5 лет

Вывод: соответствует требованиям ТУ У 24.6-14215951-001:2010 зі змінами 1-6

Ответственный за анализ Суржикова Н. Л.

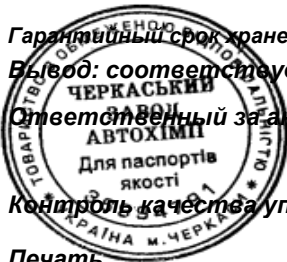
Подпись

Контроль качества упаковки

Подпись



Печать





Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Черновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 16-1835/1

**Жидкость охлаждающая
низкозамерзающая марки А-38 зеленый
Антифриз Ст11
ТУ У 24.6-14215951-001:2010 зі змінами 1-6**

Партия №: 136-03
Масса нетто, кг указано на канистре

Дата фасовки
Вид и тип тары

06.06.2016
кан.п/е ,5л.10л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу -эталону	Соответствует	ГОСТ 28084-89, п.4.1
2	Плотность при температуре 20 °С, г/см ³ , не меньше	1.060	1,155	ГОСТ 18995.1-73, розділ 1
3	Температура начала кристаллизации, °С, не выше	-36	-36,0	ГОСТ 28084-89, п.4.3
4	Фракционный состав:			ГОСТ 28084-89, п.4.4
	Температура начала перегонки, °С, не ниже	100	100,0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	54,3	
5	Коррозионное воздействие на металлы г/м2 сут., не больше *			ГОСТ 28084-89, п.4.5
	<input type="checkbox"/> алюминий	0.1	0,04	
	<input type="checkbox"/> чугун	0.1	0,08	
	<input type="checkbox"/> сталь	0.1	0,03	
	<input type="checkbox"/> медь	0.1	0,04	
	<input type="checkbox"/> латунь	0.1	0,05	
	<input type="checkbox"/> припой	0.2	0,15	
6	Вспениваемость:			ГОСТ 28084-89, п.4.6
	<input type="checkbox"/> Объем пены, см3 не больше	30	15	
	<input type="checkbox"/> Стойкость пены, с, не больше	3	1,80	
7	Набухание резины, %, не больше	5	1,3	ГОСТ 28084-89, п.4.7
8	Водородный показатель(pH), при 20 °С	7.5-11.0	8,8	ГОСТ 28084-89, п.4.8
9	Щелочность, см3 раствора КОН, не меньше	10	21,3	ГОСТ 28084-89, п.4.9
10	Температура застывания, °С, не выше	-39	-39,0	ТУ У 24.6-14215951-001:2010, п.6.13

*Согласно протокола периодических испытаний № 16-006 от 01.03.2016

Гарантийный срок хранения – 5 лет

Вывод: соответствует требованиям ТУ У 24.6-14215951-001:2010 зі змінами 1-6

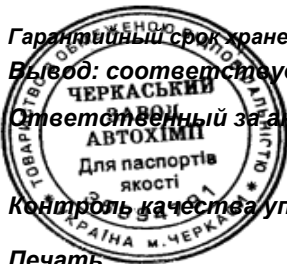
Ответственный за анализ Суржикова Н. Л.

Подпись

Контроль качества упаковки

Подпись

Печать





Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Черновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 16-1834/2

**Жидкость охлаждающая
низкозамерзающая марки А-38 красный
Антифриз St12+
ТУ У 24.6-14215951-001:2010 зі змінами 1-6**

Партия №: 160-01
Масса нетто, кг указано на канистре

Дата фасовки
Вид и тип тары

03.06.2016
кан. п/е 10л,5л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу - эталону	Соответствует	ГОСТ 28084-89, п.4.1
2	Плотность при температуре 20 °С, г/см ³ , не меньше	1.060	1,154	ГОСТ 18995.1-73, розділ 1
3	Температура начала кристаллизации, °С, не выше	-36	-36,0	ГОСТ 28084-89, п.4.3
4	Фракционный состав:			ГОСТ 28084-89, п.4.4
	Температура начала перегонки, °С, не ниже	100	100,0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	54,3	
5	Коррозионное воздействие на металлы г/м ² сут., не больше *			ГОСТ 28084-89, п.4.5
	<input type="checkbox"/> алюминий	0.1	0,04	
	<input type="checkbox"/> чугун	0.1	0,08	
	<input type="checkbox"/> сталь	0.1	0,03	
	<input type="checkbox"/> медь	0.1	0,04	
	<input type="checkbox"/> латунь	0.1	0,05	
	<input type="checkbox"/> припой	0.2	0,15	
6	Вспениваемость:			ГОСТ 28084-89, п.4.6
	<input type="checkbox"/> Объем пены, см ³ не больше	30	15	
	<input type="checkbox"/> Стойкость пены, с, не больше	3	1,80	
7	Набухание резины, %, не больше	5	1,3	ГОСТ 28084-89, п.4.7
8	Водородный показатель(рН), при 20 °С	7.5-11.0	8,1	ГОСТ 28084-89, п.4.8
9	Щелочность, см ³ раствора КОН, не меньше	10	18,2	ГОСТ 28084-89, п.4.9
10	Температура застывания, °С, не выше	-39	-39,0	ТУ У 24.6-14215951-001:2010, п.6.13

*Согласно протокола периодических испытаний № 16-006 от 01.03.2016

Гарантийный срок хранения – 5 лет

Вывод: соответствует требованиям ТУ У 24.6-14215951-001:2010 зі змінами 1-6

Ответственный за анализ Суржикова Н. Л.

Подпись

Контроль качества упаковки Бабенкова Т.Т.

Подпись

Печать





Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Черновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 24-225р

**Жидкость охлаждающая
низкозамерзающая марки А-38
Тосол**

Партия №: 24-030-01
Масса нетто, кг указано на канистре

Дата фасовки
Вид и тип тары

17.01.2024
кан п/е 10л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид	Однородная прозрачная жидкость без механических примесей. Цвет соответствует образцу -эталоны	Соответствует	ТУ У 24.6-14215951-001:2010 п.6.3
2	Плотность при температуре 20 °С, г/см ³ , не меньше	1.060	1,078	ДСТУ 7261:2012
3	Температура начала кристаллизации, °С, не выше	-36	-37,0	ТУ У 24.6-14215951-001:2010 п.6.5
4	Фракционный состав:			ТУ У 24.6-14215951-001:2010 п.6.6
	Температура начала перегонки, °С, не ниже	100	111,0	
	Фракционный состав массовая доля жидкости, перегоняемая до температуры °С, не больше	60	55,2	
5	Коррозионное воздействие на металлы г/м ² сут., не больше *			ТУ У 24.6-14215951-001:2010 п.6.7
	<input type="checkbox"/> алюминий	0.1	0,09	
	<input type="checkbox"/> чугун	0.1	0,07	
	<input type="checkbox"/> сталь	0.1	0,05	
	<input type="checkbox"/> медь	0.1	0,04	
	<input type="checkbox"/> латунь	0.1	0,06	
	<input type="checkbox"/> припой	0.2	0,12	
6	Вспениваемость:			ТУ У 24.6-14215951-001:2010 п.6.8
	<input type="checkbox"/> Объем пены, см ³ не больше	30	0	
	<input type="checkbox"/> Стойкость пены, с, не больше	3	0	
7	Набухание резины, %, не больше	5	0,8	ТУ У 24.6-14215951-001:2010 п.6.9
8	Водородный показатель(рН), при 20 °С	7.5-11.0	8,6	ТУ У 24.6-14215951-001:2010 п.6.10
9	Щелочность, см ³ раствора КОН, не меньше	не нормується	19,9	ТУ У 24.6-14215951-001:2010 п.6.11
10	Температура застывания, °С, не выше	-39	-39,0	ТУ У 24.6-14215951-001:2010, п.6.13

Гарантийный срок хранения – 5 лет

Вывод: соответствует требованиям договора № 46 от 21.02.2020

Ответственный за анализ

Подпись

Контроль качества упаковки Бабенкова Т.Т.

Подпись

Печать





Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Чорновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 23-5845/1

Жидкость тормозная Dot-4

ТУ У 20.5-2124628712-002:2016 зі зміною 1

Партия №: 23-111-03
Масса нетто, кг Вказано на каністрі

Дата фасовки
Вид и тип тары

08.12.2023
кан п/е 0.9л

№	Название показателя	Норма	Факт	Метод испытания
1	Внешний вид и цвет	Однородная прозрачная жидкость от бесцветного до светло-коричневого цвета без осадка, допускается слабая опалесциция	Соответствует	п. 6.2 ТУ У 20.5-212468712-002:2016 та ДСТУ 2436.1(ГОСТ 2706.1)
2	Вязкость кинематическая, мм ² /с			п. 6.3 ТУ У 20.5-212468712-002:2016 та ДСТУ ГОСТ 33
	-при -30±1 °С, не більше	1800	1,545	
	-при +100±0.5 °С, не менее	1.5	2.5	
3	Низкотемпературные свойства: *			п. 6.4 ТУ У 20.5-212468712-002:2016
	стан рідини після витримки при -(40±2) °Спротягом (6.0±0.5) год.			
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесциция	Соответствует	
	-время прохождения пузырька воздуха через слой жидкости при перекалывании сосуда, С, не более	35	28	
4	Температура кипения при давлении 101,3 кПа, °С, не менее	230	233	п. 6.5 ТУ У 20.5-212468712-002:2016
5	Температура кипения увлажненной жидкости при давлении 101,3 кПа, °С, не менее	155	155	п. 6.6 ТУ У 20.5-212468712-002:2016
6	Стабильность при высокой температуре, °С,%, не более	3	2	п. 6.7 ТУ У 20.5-212468712-002:2016
7	Влияние на резину: *			п. 6.8 ТУ У 20.5-212468712-002:2016
	а) изменение объема резины:			
	-марки 7-2462 при (70 ± 2) °С,%, не более или	13	2.6	
	б) изменение внешнего вида резины	Отсутствие клейкости и шелушения	Соответствует	
8	Показатель активности водородных ионов (рН), ед. рН, в пределах	7.0-11.5	8.4	п. 6.9 ТУ У 20.5-212468712-002:2016
9	Взаимодействие с металлами при температуре (100 ± 2) °С в течение (120 ± 2) ч *			п. 6.10 ТУ У 20.5-212468712-002:2016

а) изменение массы пластинок, мг/см ² , не более		
-белая жечь	0.2	0.010
-сталь Ст10	0.2	0.04
-алюминиевый сплав Д-16	0.1	-0.04
-чугун СЧ 18-35	0.2	-0.19
-латунь Л-63	0.4	0.23
-медь М-1	0.4	0.09
б) внешний вид пластинок	Отсутствие признаков коррозии в виде точек, шероховатости, видим невооруженным глазом, отсутствие кристаллического осадка. Предполагается налет, легковитраемый хлопчатобумажной и	Соответствует
в) состояние тормозной жидкости	Отсутствие сгусток и кристаллов на стенках сосуда и на пластинках; допускается потемнение	Соответствует
г) значение показателя активности водородных ионов (рН) после испытаний, ед. рН, в пределах	7.0-11.5	8.6

10	Совместимость с водой: *			п. 6.11 ТУ У 20.5-212468712-002:2016
	а) при температурі мінус (30±1) °С протягом (24±2) год.	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция	Соответствует	
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция	Соответствует	
	-время прохождения пузырька воздуха через слой жидкости при перекадывании сосуда, С, не более	10	6	
	б) при температуре (60 ± 2) ° С в течение (24 ± 2) ч			
	-внешний вид	Прозрачная жидкость без расслоений и осадка, допускается слабая опалесценция	Соответствует	
11	Массовая доля механических примесей *	Отсутствие	Соответствует	п. 6.12 ТУ У 20.5-212468712-002:2016

***Согласно протокола периодических испытаний № 23-31 п.и от 06.06.2023**

Гарантийный срок хранения – 3 года

Вывод: соответствует требованиям ТУ У 20.5-212468712-002:2016 зі зміною 1

Специальный анализ Суржикова Н. Л.

Подпись



Контроль качества упаковки

Подпись



Печать



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

State register No. 31852954



Testing laboratory of JV "YUKOIL" LLC is certified for carrying out tests of quality parameters of petroleum products, technical fluids and lubricants. Certificate of technical competence recognition № AB 83-21 dated 16.11.2021 is issued by the State-owned enterprise "ZAPORIZHYASTANDARTMETROLOGIA", valid till 16.11.2024

Quality Certificate No 50044.01.01.1

Engine oil YUKO VEGA SYNT 5W-40

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 5W-40**

Quality Index: **API SL/CF, ACEA A3/B4**

Production date: December 2023

Package: canister 4L PE

Batch No: 50044.13.12.23.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	900	875,2	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	12,5 - 16,3	14,79	ASTM D445
Viscosity index, not less than	125	148	ASTM D2270
Open cup flash point, °C, not less than	200	213	ASTM D92
Pour point, °C, not high than	- 30	- 33	ASTM D97
Mass fraction of mechanical impurities, %, not more than	0.015	0,013	DSTU GOST 6370
Water content, %, not more than	traces	traces	ASTM D95
TBN, mg KOH/g, not less than	9,0	9,38	ASTM D4739 or ASTM D2896
Sulfate ash content, %, no more	1,5	1,39	ASTM D874
Corrosion on plates of the copper and steel	withstands	pass	ASTM D130
CCS, mPa*s, not more than			ASTM D5293
CCS at minus 30°C	6600	6 600	ASTM D5293
Mass fraction of active elements, %, not less:			ASTM D6481 or ASTM D6443 or ASTM D4927
- Calcium	0,27	0,350	ASTM D6481 or ASTM D6443 or ASTM D4927
- Zinc	0,11	0,134	ASTM D6481 or ASTM D6443 or ASTM D4927
Color on colorimetr, in diluted ratio 15:85, not more than	4,5	1,0	ASTM D1500

Result: the product quality meets the standard of

seal

Head of Quality Assurance Department

WEB: www.yuko.eu

Hot-line: +38 (0) 800 60 5555

E-mail: support@yukoil.com

Tel.: +38 (061) 222 80 32

Member of:



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

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Quality Certificate No 43030.01.01.1

Grease YUKO Graphite

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade:

Quality Index: **OGF2G-20, ISO-L-XBAEA2**

Production date: October 2023

Package: can 1L tin

Batch No:43030.24.10.23.01.



Test	Norm	Result	Test method
Appearance	homogeneous grease from dark brown to black	homogeneous black ointment	GOST 1033 p. 4.2
Dropping point, °C, not low than	77	97,0	ASTM D2265
Worked penetration at 25°C, 0.1 mm	250	270	GOST 5346
Corrosion on plates of the steel	pass	pass	GOST 9.080
Water content	3	0,1	ASTM D95
Shear strength at 50°C, Pa, not less than	100	350	GOST 7143
Oil separation, %, not more than	5	3,8	GOST 7142
Effective viscosity at 0°C and with average gradient of the strain rate 10 s ⁻¹ , Pa·s, not more than	100	100	ASTM D1092

Result: the product quality meets the standard of GOST 3333-80

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Head of Quality Assurance Department

WEB: www.yuko.eu

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E-mail: support@yukoil.com

Tel.: +38 (061) 222 80 32

Member of:



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

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Quality Certificate No 06087.01.01.1 Compressor oil YUKO KC-19 (ISO 220)

Manufacturer: JV YUKOIL LLC

Packed by: JV YUKOIL LLC

Viscosity grade: **ISO 220**

Production date: February 2024

Package: canister 20L PE

Batch No: 06087.08.02.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	905	890,4	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	not less than 18	20,65	ASTM D445
Viscosity index, not less than	85	98	ASTM D2270
Open cup flash point, °C, not less than	260	270	ASTM D92
Pour point, °C, not high than	- 15	- 24	ASTM D97
Mass part of water-soluble acids and alkalis	absence	absence	GOST 6307
Mass fraction of mechanical impurities, not more than	absence	absence	GOST 6370 p. 5.3
Water content	absence	absence	ASTM D95
Colour on colorimeter, not more than	6,0	4,0	ASTM D1500
Acid number, mg KOH/g, not more than	0,02	0,003	ASTM D974
Oxidation stability			GOST 981 or p.5.6 TU or ASTM D943
- mass fraction of residue, %, not more than	absence	absence	GOST 981 or p.5.6 TU or ASTM D943
- acid numbermg, KOH/g, not more than	0,5	0,500	GOST 981 or p.5.6 TU or ASTM D943
Ash content, %, not more than	0,01	0,0033	ASTM D482
Sulfur content, %, not more than	1,0	0,312	ASTM D6481 or ASTM D6443 or ASTM D4927
Foaming characteristics, cm ³ , not more than:			ASTM D892
- at 24°C	100	10	ASTM D892
- at 94°C	50	20	ASTM D892
- at 24°C, after 94°C	100	10	ASTM D892

Result: the product quality meets the standard of TU U 23.2-31852954-007-2003

seal

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LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

State register No. 31852954



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Quality Certificate No 06087.01.01.1

Compressor oil YUKO KC-19 (ISO 220)

Manufacturer: JV YUKOIL LLC

Packed by: JV YUKOIL LLC

Viscosity grade: **ISO 220**

Production date: February 2024

Package: canister 20L PE

Batch No: 06087.08.02.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	905	890,4	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	not less than 18	20,65	ASTM D445
Viscosity index, not less than	85	98	ASTM D2270
Open cup flash point, °C, not less than	260	270	ASTM D92
Pour point, °C, not high than	- 15	- 24	ASTM D97
Mass part of water-soluble acids and alkalis	absence	absence	GOST 6307
Mass fraction of mechanical impurities, not more than	absence	absence	GOST 6370 p. 5.3
Water content	absence	absence	ASTM D95
Colour on colorimeter, not more than	6,0	4,0	ASTM D1500
Acid number, mg KOH/g, not more than	0,02	0,003	ASTM D974
Oxidation stability			GOST 981 or p.5.6 TU or ASTM D943
- mass fraction of residue, %, not more than	absence	absence	GOST 981 or p.5.6 TU or ASTM D943
- acid numbermg, KOH/g, not more than	0,5	0,500	GOST 981 or p.5.6 TU or ASTM D943
Ash content, %, not more than	0,01	0,0033	ASTM D482
Sulfur content, %, not more than	1,0	0,312	ASTM D6481 or ASTM D6443 or ASTM D4927
Foaming characteristics, cm ³ , not more than:			ASTM D892
- at 24°C	100	10	ASTM D892
- at 94°C	50	20	ASTM D892
- at 24°C, after 94°C	100	10	ASTM D892

Result: the product quality meets the standard of TU U 23.2-31852954-007-2003

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WEB: www.yuko.eu

Hot-line: +38 (0) 800 60 5555

E-mail: support@yukoil.com

Tel.: +38 (061) 222 80 32

Member of:



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

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Quality Certificate No 44015.01.01.1

Grease YUKO LITOL-24 EP

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade:

Quality Index: **KP2K-40, ISO-L-XDCEB 2**

Production date: October 2023

Package: pail 20L tin

Batch No:44015.30.10.23.01.



Test	Norm	Result	Test method
Appearance	homogeneous ointment with a smooth structure from light yellow to dark brown	smooth homogeneous light yellow ointment	GOST 38.001
Dropping point, °C, not low than	140	149	ASTM D2265
Worked penetration at 25°C, 0.1 mm	265 - 295	280	ASTM D217
Effective viscosity at minus 20°C and with average gradient of the strain rate 10 s ⁻¹ , Pa·s, not more than	1500	259	ASTM D1092
Oil separation, %, not more than	15,0	14,11	GOST 7142
Shear strength at 50°C, Pa, not less than	150	151	GOST 7143
Evaporation, %, not mor than	5,0	0,88	GOST 9566
Corrosive effect on metals	pass	pass	GOST 9.080
- welding load, N, not less	2 450	2 450	ASTM D2596

Result: the product quality meets the standard of

seal

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LLC «JV YUKOIL»
48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100
Hot-line: +38 (0) 800 60 5555
Tel: +38 (061) 222 80 25 (laboratory)
State register No. 31852954



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Quality Certificate No 04100.01.01.1

Four-stroke engine oil YUKO MASTER SYNT 4T 10W-30

Manufacturer JV YUKOIL LLC
Packed by JV YUKOIL LLC
Viscosity grade: **SAE 10W-30**
Quality Index: **API SL/CF, JASO MA2**
Production date: January 2024
Package: canister 1L PE
Batch No: 04100.25.01.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	900	873,1	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	9,3 - 12,5	11,53	ASTM D445
Viscosity index, not less than	130	138	ASTM D2270
Open cup flash point, °C, not less than	200	216	ASTM D92
Pour point, °C, not high than	- 32	- 37	ASTM D97
Mass fraction of mechanical impurities, %, not more than	0,025	0,023	GOST 6370
Water content, %, not more than	traces	traces	ASTM D95
Color on colorimetr, in diluted ratio 15:85, not more	3,5	1,0	ASTM D1500
TBN, mg KOH/g, not less than	5,5	6,03	ASTM D4739 or ASTM D2896
Mass fraction of active elements, %, not less than			ASTM D6481 or ASTM D6443 or ASTM D4927
- calcium	0,2	0,222	ASTM D6481 or ASTM D6443 or ASTM D4927
- zinc	0,08	0,088	ASTM D6481 or ASTM D6443 or ASTM D4927
Sulphated ash, %, not more than	1,2	0,89	ASTM D874
CCS at minus 25°C, mPa, not more than	7 000	6 589	ASTM D5293

Result: the product quality meets the standard of

seal

Head of Quality Assurance Department

LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

State register No. 31852954



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Quality Certificate No 50088.01.01.1

Two-stroke engine oil YUKO MOTOMIX 2T (TC)

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **ISO-L-EGB**

Quality Index: **API TC, JASO FB**

Production date: December 2023

Package: canister 1L PE

Batch No: 50088.14.12.23.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	920	867,5	ASTM D1298
Kinematic viscosity, mm ² /s			ASTM D445
- at 100°C, not less than	8,0 - 12,0	9,29	ASTM D445
Viscosity index, not less than	85	135	ASTM D2270
Open cup flash point, °C, not less than	200	214	ASTM D92
Pour point, °C, not high than	- 25	- 34	ASTM D97
Mass fraction of mechanical impurities, %, not more than	absence	absence	GOST 6370
Water content, %, not more than	traces	traces	ASTM D95
Color on colorimetr, in diluted ratio 15:85, not more than	4,0	4,0	ASTM D1500
Corrosion on plates of the copper and steel	pass	pass	ASTM D130
Sulphated ash, %, not more than	0,3	0,15	ASTM D874
TBN, mg KOH/g, not less than	0,8	1,19	ASTM D2896
Appearance	fact	red	visually

Result: the product quality meets the standard of TU U 23.2-31852954-016-2004

seal

Head of Quality Assurance Department

LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

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Quality Certificate No 04021.01.01.1

Grease YUKO Solidol

Manufacturer: JV YUKOIL LLC

Packed by: JV YUKOIL LLC

Viscosity grade: **NLGI 2/3**

Production date: January 2024

Package: pail 20L tin

Batch No: 04021.22.01.24.01.



Test	Norm	Result	Test method
Appearance	homogeneous grease from light yellow to dark brown	homogeneous brown grease	GOST 1033 p. 4.2
Dropping point, °C, not low than	78	98,0	ASTM D2265
Effective viscosity at 0°C and with average gradient of the strain rate 10 s ⁻¹ , Pa·s, not more than	250	108	ASTM D1092
Worked penetration at 25°C, 0.1 mm	230-290	245	GOST 5346
Shear strength at 50°C, Pa, not less than	196	340	GOST 7143
Mass part of free alkali calculated to NaOH, %, not more than	0,2	0,062	GOST 6707
Mass fraction of organic acid admixture	absence	absence	GOST 6707 free acids
Mass fraction of mechanical impurities, %, not more than	absence	absence	GOST 6479 or ASTM D128
Water content, %, not more than	2,5	0,1	ASTM D95
Mass fraction of the calcium soaps, %, not less than	11,0	11,0	GOST 5211

Result: the product quality meets the standard of GOST 1033-79

seal

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LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

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Quality Certificate No 06089.01.01.1 Turbine oil YUKO Tp-22C (ISO 32)

Manufacturer: JV YUKOIL LLC

Packed by: JV YUKOIL LLC

Viscosity grade: **ISO 32**

Production date: February 2024

Package: barrel 200L metal

Batch No: 06089.08.02.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	895	850,6	ASTM D1298
Kinematic viscosity at 40°C, mm ² /s	28,8 - 35,2	31,42	ASTM D445
Viscosity index, not less than	88	98	ASTM D2270
Open cup flash point, °C, not less than	186	212	ASTM D92
Pour point, °C, not high than	- 25	- 35	ASTM D97
Mass part of water-soluble acids and alkalis	absence	absence	GOST 6307
Sulfur content, %, not more	0,3	0,125	GOST 1431 or ASTM D6481 or ASTM D6443 or ASTM D4927
Mass fraction of mechanical impurities, %, not more than	Absence	absence	DSTU GOST 6370
Water content, %, not more than	Absence	absence	ASTM D95
Colour on colorimeter, not more than	3	1	ASTM D1500
Acid number	0,07	0,006	ASTM D974
Emulsifiability with water, s, not more	180	140	GOST 12068
Corrosion on steel rods	Pass	absence	GOST 19199
Oxidation stability, not more			ASTM D943
- sediment, % (mass fraction)	0,005	0,002	ASTM D943
- light low molecular weight acids, mg KOH/g	0,02	0,019	ASTM D943
- acid number, mg KOH/g	0,1	0,071	ASTM D943
Foaming characteristics, cm ³ , not more:			ASTM D892
- at 24°C	50	5	ASTM D892
- at 94°C	50	10	ASTM D892
- at 24°C, after 94°C	50	5	ASTM D892

Result: the product quality meets the standard of

seal

Head of Quality Assurance Department

WEB: www.yuko.eu

Hot-line: +38 (0) 800 60 5555

E-mail: support@yukoil.com

Tel.: +38 (061) 222 80 32

Member of:



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

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Quality Certificate No 04058.01.01.1

Transmission oil YUKO TRANS 75W-90 GL-4

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 75W-90**

Quality Index: **API GL-4**

Production date: January 2024

Package: canister 1L PE

Batch No: 04058.23.01.24.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	920	870,7	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	13,5 - 18,5	14,76	ASTM D445
Viscosity index, not less than	135	170	ASTM D2270
Open cup flash point, °C, not less than	200	225	ASTM D92
Pour point, °C, not high than	- 30	- 40	ASTM D97
Mass fraction of mechanical impurities, %, not more than	absence	absence	GOST 6370
Water content, %, not more than	traces	traces	ASTM D95
Acid number, mg KOH/g, not more than	2,0	0,65	ASTM D974
Sulfur content, %	1,0	1,17	GOST 1431 or ASTM D6481 or ASTM D6443 or ASTM D4927
Colour on colorimeter, not more than	6,0	3,0	ASTM D1500
Corrosive effect on metals	pass	pass	ASTM D130
Foaming characteristics, cm ³ , not more:			ASTM D892
- at 24°C	100	10	ASTM D892
- at 94°C	150	20	ASTM D892
- at 24°C, after 94°C	100	10	ASTM D892
Tribological characteristics on 4 balls machine at (20±5)°C			ASTM D2783
- welding load, N, not less than	3283	3 479	ASTM D2783
The temperature at which the dynamic viscosity does not exceed 150,000 MPa·s, not higher	- 40	- 40	GOST 1929

Result: the product quality meets the standard of

seal

Head of Quality Assurance Department

WEB: www.yuko.eu

Hot-line: +38 (0) 800 60 5555

E-mail: support@yukoil.com

Tel.: +38 (061) 222 80 32

Member of:



LLC «JV YUKOIL»

48A Ivana Pulyuya str., Bila Tserkva, Kyiv region, Ukraine, 09100

Hot-line: +38 (0) 800 60 5555

Tel: +38 (061) 222 80 25 (laboratory)

State register No. 31852954



Testing laboratory of JV "YUKOIL" LLC is certified for carrying out tests of quality parameters of petroleum products, technical fluids and lubricants. Certificate of technical competence recognition № AB 83-21 dated 16.11.2021 is issued by the State-owned enterprise "ZAPORIZHYASTANDARTMETROLOGIA", valid till 16.11.2024

Quality Certificate No 51048.01.01.1

Transmission oil YUKO TRANS 80W-90 GL-4

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade: **SAE 80W-90**

Quality Index: **API GL-4**

Production date: December 2023

Package: canister 1L PE

Batch No: 51048.20.12.23.01.



Test	Norm	Result	Test method
Density at 20°C, kg/m ³ , not more than	920	891,7	ASTM D1298
Kinematic viscosity at 100°C, mm ² /s	13,5 - 18,5	15,80	ASTM D445
Viscosity index, not less than	85	93	ASTM D2270
Open cup flash point, °C, not less than	200	207	ASTM D92
Pour point, °C, not high than	- 23	- 28	ASTM D97
Mass fraction of mechanical impurities, %, not more than	absence	absence	GOST 6370
Water content, %, not more than	traces	traces	ASTM D95
Sulfur content, %	Not more than 3,0	1,29	GOST 1431 or ASTM D6481 or ASTM D6443 or ASTM D4927
Colour on colorimeter, not more than	6,0	4,0	ASTM D1500
Corrosive effect on metals	pass	pass	ASTM D130
Tribological characteristics on 4 balls machine at (20±5)°C			ASTM D2783
- welding load, N, not less than	3283	3 920	ASTM D2783
- scuff index, N, not less than	490	542	ASTM D2783

Result: the product quality meets the standard of

seal

Head of Quality Assurance Department

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Quality Certificate No 06048.01.01.1

Grease YUKO ShRUS-4

Manufacturer JV YUKOIL LLC

Packed by JV YUKOIL LLC

Viscosity grade:

Quality Index: **KPF2K-40, ISO-L-XDCGB2**

Production date: February 2024

Package: doy-pack 375g PE

Batch No: 06048.07.02.24.01.



Test	Norm	Result	Test method
Appearance	homogeneous ointment from dark gray to black	homogeneous black ointment	GSTU 38.001 or 6.3 TU
Dropping point, °C, not low than	190	195,8	ASTM D2265
Worked penetration at 25°C, 0.1 mm	250 - 290	250	GOST 5346 A or ASTM D217
Shear strength, Pa			GOST 7143
Shear strength at 20°C, Pa	300 - 700	475	GOST 7143
- at 80°C	150	280	GOST 7143
Oil separation, %, not more than	16	16,0	GOST 7142
Corrosive effect on metals	pass	pass	GOST 9.080
Water content, %, not more than	traces	traces	GOST 2477 or ASTM D128
Mass part of free alkali calculated to NaOH, %, not more than	0,1	0,059	GOST 6707 and p.6.5
Evaporation, %, not mor than	5,0	0,88	GOST 9566
Tribological characteristics on 4 balls machine at (20±5) °C, N, not less than			ASTM D2596
- welding load	4 900	4 900	ASTM D2596
- critical load	1 098	1 098	ASTM D2596
- scuff index	559	564	ASTM D2596
Effective viscosity at minus 20°C and with average gradient of the strain rate 10 s-1, Pa·s, not more than	1800	638	ASTM D1092
Water resistance, not more than	1-90	1-90	p. 6.7
Oxidation stability, mg KOH/g, not more than	3	1,35	GOST 5734

Result: the product quality meets the standard of TU U 23.2-31852954-031:2007

seal

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Tel.: +38 (061) 222 80 32

Member of:



E-TEC

Изготовитель ООО "Черкасский завод автохимии", Украина, г. Черкассы, ул. В.Чорновола 118, тел. +38 (0472) 64-24-04, 64-04-90

ПАСПОРТ КАЧЕСТВА № 20-1123

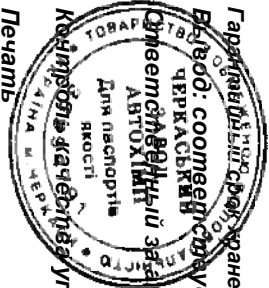
Масло трансмиссионное
АТФ III G

Партия №: 20-034-01
Масса нетто, кг указано на канистре

Дата изготовления
Дата фасовки
Вид и тип тары

3/16/2023
5/17/2023
кан мет. 1л

№	Название показателя	Норма	Факт	Метод испытания
1	Вязкость кинематическая, мм ² /с при 100°С, не менее	7,0	7,9	ДСТУ ГОСТ 33
2	Индекс вязкости, не менее	170	185	ГОСТ 25371
3	Температура вспышки в открытом тигле, °С, не ниже	175	190	ГОСТ 4333
4	Температура застывания, °С, не выше	-45	-45	ГОСТ 20287
5	Плотность при 20°С, г/см ³ , не более	0,890	0,821	ГОСТ 3900
6	Цвет	Красный	Красный	ГОСТ 20284



Гарантийный срок хранения – 3 года.

Ввод: соответствием требованиям

Олеостойкий вязконоплз Маковецкая Л.Г.

Кодированная упаковка

Печать

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