

**TYPE APPROVAL OF PACKAGING FOR
TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET11601A**

HOLDER OF CERTIFICATE:
ALOREM SAS

4122 kg max

RESPONSIBLE DISTRIBUTOR: ALOREM SAS, 350 Route de Thil - 01700 Beynost, France



MARKING ON PACKAGING:

Each packaging intended for use according to the ADR shall bear markings which are durable, legible and placed in a location as to be readily visible. Letters, numerals and symbols shall be at least 12 mm high. The IBC shall also be appropriately marked in accordance with ADR 6.5.2.2 Additional marking.

UN 31A/Y/MMYY/N/NET11601A - ID/7420/KG1

- UN** : The United Nations symbol
- 31A** : Steel IBCs for liquids
- Y** : Packaging group II and III
- MMYY** : To be replaced with the month and year (last two digits) of manufacture
- N** : Norway, the state authorizing the allocation of the mark
- NET11601A - ID** : Identification of the IBC followed by "ID" to be replaced by the name or symbol of the manufacturer
- 7420** : The stacking test load in kg
- KG** : The maximum permissible gross mass in kg, see content table

PRODUCT:

| Description/ Method of manufacture | Material/ Thickness, mm |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Welded compact fuel tank, combined with a 111, 230 and 321 liter Adblue tank in stainless steel. Delivered with or without a ladder in front. | Steel S235/ 3 |



DIMENSIONS:

| IBC#: Capacity, l | L*W*H, mm | Drawing |
|-----------------------|----------------|------------------------------------|
| 1: 3031 | 2296*1185*1700 | RF30T, RF30T-000-C |
| 2: 2015 | 2296*1185*1700 | RF20TB, RF20TB-000-C |
| 3: 1745 + 230 Adblue | 2296*1185*1296 | RF20-000-200ADB, RF20-000-B |
| 4: 2065 | 2296*1185*1296 | RF20, RF20-000-B |
| 5: 928 | 1185*1185*1296 | RF10 |
| 6: 780 + 111 Adblue | 1185*1185*1296 | RF10-000-100ADB |
| 7: 2711 + 230 Adblue | 2296*1185*1700 | RF30T-000-200ADB, RF30T-000-C |
| 8: 2632 + 321 Adblue | 2296*1185*1700 | RF30T-000-300ADB, RF30T-000-C |
| 9: 1695 + 230 Adblue | 2296*1185*1700 | RF20TB-000-200ADB, RF20TB-000-C |
| 10: 1616 + 321 Adblue | 2296*1185*1700 | RF20TB-000-300ADB, RF20TB-000-C |
| 11: 1666 + 321 Adblue | 2296*1185*1296 | RF20-000-300ADB, RF20-000-B |

CLOSING MECHANISM:

| #: Closure type | Producer | Drawing | Material | Gasket | Torque |
|---------------------------------------|---------------|---------------------------|------------------|------------|--------|
| Main cap | Mintor S.r.l. | Bouchon G3-F avec bras | S235 | G p Rubber | 55 |
| Bung | Goshe | - | Steel | - | - |
| Top gasket | Gumo plast | - | Rubber | G p Rubber | - |
| Plug 3" | BIS | - | Galvanized steel | - | - |
| Plug 2" | BIS | - | Galvanized steel | - | - |
| Plug 1 1/4" | BIS | - | Galvanized steel | - | - |
| Plug 1" | Gebo | - | Galvanized steel | - | - |
| Valve 3/4" | Any | - | Brass | - | - |
| Anti syphon valve 1" | Any | - | Brass | - | - |
| Push Pull connector 3/8" Male | Any | - | Steel | - | - |
| Push Pull connector 3/8" Female | Any | - | Steel | - | - |
| Push Pull connector 1/2" Male | Any | - | Steel | - | - |
| Push Pull connector 1/2" Female | Any | - | Steel | - | - |
| Push Pull connector 3/4" Male | Any | - | Steel | - | - |

| | | | | | |
|------------------------------------------|------------|----------|------------------|------------|-----|
| Push Pull connector 3/4" Female | Any | - | Steel | - | - |
| Manhole cover, RF10 | ALOREM SAS | RF10-070 | Galvanized Steel | G p Rubber | 70 |
| Manhole cover, exept RF10 | ALOREM SAS | RF30-070 | Galvanized Steel | G p Rubber | 70 |
| Manhole cover on Adblue tank, 111 L | ALOREM SAS | RF10-354 | Stainless steel | G p Rubber | 100 |
| Manhole cover on Adblue tank, Exept RF10 | ALOREM SAS | RF30-343 | Stainless steel | G p Rubber | 100 |


ACCESSORIES:

| Type | Description / Drawing | Producer |
|--------------------|-----------------------------|------------------|
| Electric vane pump | Viscomat 70 | Piusi |
| Electric vane pump | Viscomat 90 | Piusi |
| Electric pump | Panther 56 | Piusi |
| Electric pump | Panther 72 | Piusi |
| Electric pump | Panther 90 | Piusi |
| Electric pump | Carry 3000 12V | Piusi |
| Electric pump | Carry 3000 24V | Piusi |
| Electric pump | Panther 12/24V | Piusi |
| Electric pump | E80M | Piusi |
| Electric pump | Bipump 12V | Piusi |
| Electric pump | Bipump 24V | Piusi |
| Electric pump | SuzzaraBlue 12V | Piusi |
| Electric pump | SuzzaraBlue 24V | Piusi |
| Electric pump | SuzzaraBlue 230V | Piusi |
| Manual pump | JAP0 | Japy |
| Manual pump | JAP1 | Japy |
| Manual pump | JAP2 | Japy |
| Manual pump | K0 | Sigma |
| Manual pump | K1 | Sigma |
| Manual pump | K2 | Sigma |
| Manual pump | Hand pump | Piusi |
| Level indicator | Magnetic liquid-level gauge | Rochester Gauges |
| Level indicator | OCIO | Piusi |

| | | |
|--------------------------------|--------------------------------------------------|---------------|
| Level indicator | Lorawan | Tekelek |
| Level indicator | Pompilive | Geofilling |
| Level indicator | Orbis | FOUR DATA |
| Level indicator | Fuelit | FOUR DATA |
| Automatic nozzle | A60 | Piusi |
| Automatic nozzle | A120 | Piusi |
| Automatic nozzle | A280 | Piusi |
| Automatic nozzle | SuzzaraBlue nozzle | Piusi |
| Manual nozzle | SuzzaraBlue nozzle | Piusi |
| Manual nozzle | S3000 | Piusi |
| Filter | WCF70 | Piusi |
| Flow meter | K24 | Piusi |
| Flow meter | K33 | Piusi |
| Breather cap | Breather plug with double valve tilt-function | Mintor S.r.l. |
| Hose reel | DN19-DN25 | OMPI |
| Hose | VACU | Flex |
| Hose | 1SN | Flex |
| Bund alarm | DF02 | Afriso |
| Bund alarm | DFAF220 | Afriso |
| Adblue tank | 111 | ALOREM SAS |
| Adblue tank | 230 | ALOREM SAS |
| Adblue tank | 321 | ALOREM SAS |
| Protection cover 1240 x 980 mm | RF30T | ALOREM SAS |
| Ladder | RF30T | ALOREM SAS |
| Eye for top lift, 1 | RF30T-103-M1 | ALOREM SAS |
| Eye for top lift, 2 | RF30T-105-XM2 | ALOREM SAS |
| Eye for top lift, 3 | RF104-XM2 | ALOREM SAS |

LEGISLATION:

The approval is valid for a maximum of five years, provided no modifications have been made to the packaging design, materials, dimensions, closure system or manner of construction. This certificate is liable to withdrawal at any time, to ensure validation check the published version on the Internet (www.net17025.com/Sertifisering/UN_ADR/cid/30758/).

NET issues the certification on described product according to delegated authority from Norwegian NET issues the certification on described product according to delegated authority from Norwegian Directorate for Civil Protection and Emergency Planning (DSB): Legal regulations for Transportation of Dangerous Goods on road and railway - 2023/4375 PRAX.

NET issues the certification on described product according to delegated authority from Norwegian Maritime Directorate (Sjøfartsdirektoratet) - 200705977-4/5367.1.

NET issues the certification on described product according to an agreement between Norwegian Civil Aviation Authority (Luftfartstilsynet) - 01.03.18 - 18/00114-8.

REGULATIONS BASED UPON FOR APPROVAL:

UN Recommendations on the Transport of Dangerous Goods.
 ADR, European Agreement concerning the International Carriage of Dangerous Goods by Road.
 RID, International Regulations on Transport of Dangerous Goods by Rail.
 IMDG, International Maritime Dangerous Goods Code, for sea transport.
 ADN, European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

The UN certification mark intended for the classification of packaging and the marking of dangerous goods is an international system for ensuring safe transport by road, rail, sea and air.

All types of transport with UN-approved packages must comply with the actual regulations regarding handling according to ADR, RID, IMDG, ADN or DGR.

Package testing must be performed before a UN certification mark can be issued. This document proves that the packaging has met or exceed the minimum performance requirement according to the ADR regulations and allows transport of the packaging, as long as the packaging instructions for the correct mode of transport are followed.

TESTS CARRIED OUT:

Prototype tests performed and approved according to the above regulations:

- 6.5.6.4 Bottom lift test
- 6.5.6.5 Top lift test: WLL 1031 kg, all 4 padeyes shall be used when lifting the IBC
- 6.5.6.6 Stacking test
- 6.5.6.7 Leakprooness test
- 6.5.6.8 Internal pressure test
- 6.5.6.9 Drop test
- 6.5.6.13 Vibration test

APPROVAL IS VALID FOR:

Transport of liquids with max. density of 1.0 is allowed in this IBC as long as a conventional pressure relief device is mounted. The start-to-discharge pressure shall not be higher than 65 kPa and not lower than the total gauge pressure experienced in the IBC. The IBC shall always be used according to the requirement of the applicable UN-code and its packaging instruction.

The maximum degree of filling are listed as volume in liter for the three different sizes of the IBC (98% of brimful at 15 °C). The degree of filling according to the boiling point of liquid is to be found in ADR 4.1.1.4 a).

| IBC#: Content | KG, Max. gross mass / Tare weight, kg | Max degree of filling, l | Pressure test, kPa |
|---------------|---------------------------------------|--------------------------|--------------------|
| 1: Liquids | 4090 / 1120 | 2970 | 200 |
| 2: Liquids | 3033 / 1059 | 1974 | 200 |
| 3: Liquids | 2902 / 967 | 1710 + 225 | 200 |
| 4: Liquids | 2926 / 903 | 2023 | 200 |
| 5: Liquids | 1498 / 589 | 909 | 200 |
| 6: Liquids | 1505 / 633 | 764 + 109 | 200 |
| 7: Liquids | 4065 / 1183 | 2657 + 225 | 200 |
| 8: Liquids | 4088 / 1194 | 2579 + 315 | 200 |
| 9: Liquids | 3009 / 1122 | 1661 + 225 | 200 |
| 10: Liquids | 3031 / 1133 | 1584 + 315 | 200 |
| 11: Liquids | 2924 / 977 | 1633 + 315 | 200 |

DOCUMENTS BASED UPON FOR APPROVAL:

| Report id. | Date | Issued by | Scope |
|------------|------------|--------------|------------------------------------|
| NET1401A | 10.10.2018 | NET | Type approval |
| S-03516-18 | 06.07.2018 | Eurofins Ltd | Vibration testing |
| NET14TE01 | 13.08.2018 | NET | Technical evaluation |
| NET14TE03 | 18.10.2018 | NET | Technical evaluation |
| NET14T01 | 25.05.2019 | NET | Additional test, lift eyes |
| NET116TE01 | 19.06.2020 | NET | Technical evaluation, trans |
| NET116TE05 | 11.01.2020 | NET | Technical evaluation, BF |
| NET116TE08 | 23.09.2022 | NET | Technical evaluation, Access |
| NET116TE09 | 20.10.2023 | NET | Technical evaluation, Fork passage |

VALIDITY:

The continued validity of the type approval requires that the holder of the certificate and/ or the manufacturer inform NET certification that has approved its type of packaging of any changes to the characteristics of the type or anything that can influence on the transport safety on the specific design so that it can be verified that the type of packaging continues to comply with packaging tested as base for the original type approval.

The validity of the type approval assume regular verification by means of periodic audits by NET in accordance with NET Doc 2: "Production control agreement". The packaging shall be manufactured, reconditioned and tested under a quality assurance program which satisfies NET Certification, in order to ensure that each packaging meets the requirements in ADR and the guidelines in ISO 16106.

TEST STANDARD:

All tests are performed in accordance with NET accredited test method ATM001. The test method is accredited in accordance with ISO17025 approved by Norsk Akkreditering and based upon ISO16495.



BREVIK, NORWAY

28.06.2024 CERTIFICATE IS VALID UNTIL:

30.11.2027



Geir Morten Johansen
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification