

PRODUCT APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET11603A

HOLDER OF CERTIFICATE:
ALOREM SAS

1416 kg max

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

MARKING ON PACKAGING:

"MMYY" to be replaced with the month and year (last two digits) of manufacture.
"ID" to be replaced by the name or symbol of the manufacturer.
"KG1" to be replaced by Max. gross weight in kg from table on page 3.
The packaging shall also be appropriately marked in accordance with ADR 6.5.2.2.



 **31A/Y/MMYY/N/NET11603A - ID/2550/KG**

PRODUCT:

Packaging code	Description	Material
31A	Steel IBCs for liquids	Steel 3 mm ADR 6.5.5.1.5



DIMENSIONS:

IBC#: Capacity, l	Length, mm	Width, mm	Height, mm	Drawing
1: 924	1140	1150	1331	RF-E-10-000
2: 710	1140	1150	1122	RF-E-07-000
3: 450	1140	1150	882	RF-E-04-000

CLOSING MECHANISM:

Closure type	Producer	Drawings	Material	Gasket	Torque
Main cap	Mintor S.r.l.	Bouchon G3-F avec bras	S235	Guro plast Rubber	55

ACCESSORIES:

Type	Description / Drawing	Producer
Level indicator	Magnetic liquid-level gauge	Rochester Gauges
Breather cap	Breather plug with double valve tilt-function, 87.5 mm	Mintor S.r.l.
Manhole cover	With Gumo plast Rubber gasket, and 14 steel bolts	ALOREM SAS
Blind plugg	30.4 mm, 1 pc	-
Blind plugg	38.8 mm, 2 pc	-
Breath inn	38.8 mm, 1 pc	-
Breath out	38.8 mm, 2 pc	-
Electric pump	Panther bypass 3000	Piusi



LEGISLATION:

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 - 06/6950-7/BJRU.

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

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
- 6.5.6.6 Stacking test
- 6.5.6.7 Leakproofness test
- 6.5.6.8 Internal pressure test
- 6.5.6.9 Drop test
- 6.5.6.13 Vibration test

APPROVAL IS VALID FOR:

The IBC is valid for packaging group II and III containing liquid that do not adversely affect the packaging materials. The IBC shall always be used according to the requirements of the applicable UN-code and its packaging instructions. 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	Max. relative density	KG, Max. gross weight / Tare weight, kg	Max degree of filling, l	Pressure test, kPa
1: Liquids	1.0	1387 / 482	905	200
2: Liquids	1.0	1145 / 450	695	200
3: Liquids	1.0	838 / 397	441	200

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET11603A2	19.08.2020	NET	Type approval
NET11603A	26.05.2020	NET	Type approval
NET116TE02	15.12.2020	NET	Technical evaluation, serie
NET116TE07	12.01.2021	NET	Technical evaluation, BF
NET116TE08	20.06.2022	NET	Technical evaluation, Panther

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.



PORSGRUNN, NORWAY

20.06.2022 CERTIFICATE IS VALID UNTIL:

31.01.2026

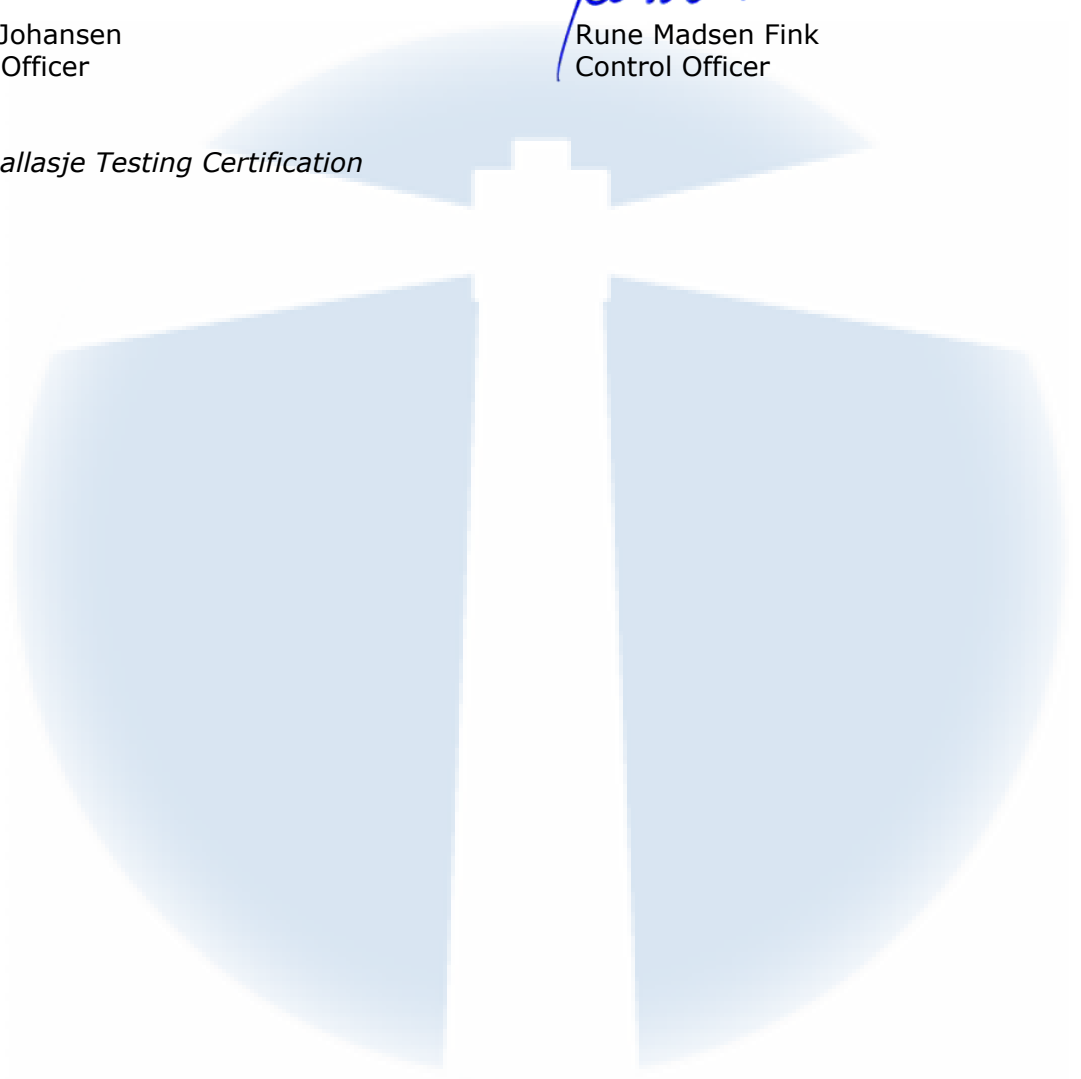
A handwritten signature in blue ink, reading 'Geir M. Johansen'.

Geir Morten Johansen
Certification Officer

A handwritten signature in blue ink, reading 'Rune Madsen Fink'.

Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification

A large, faint, light blue watermark of a stylized umbrella is centered on the page, behind the text.