

**PRODUCT APPROVAL OF PACKAGING
FOR TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET0250B**


HOLDER OF CERTIFICATE:
Berry Packaging Norway AS, Kambo

MANUFACTURER: Berry Packaging Norway AS, Kambo, Brevikveien 535, N-1506 Moss, Norway

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 packaging shall also be appropriately marked with the month of the manufacture.

 **3H1/Y1.9/200/YR/N/NET0250B - ID**

-  : The United Nations symbol
- 3H1 : Plastics jerricans, non-removable head
- Y1.9 : Packaging group II and III, and relative density of the substance
- 200 : Hydraulic test pressure in kPa
- YR : To be replaced with the last two digits of the year of manufacture
- N : Norway, the state authorizing the allocation of the mark
- NET0250B - ID : Identification of the jerrican followed by "ID" to be replaced by the name or symbol of the manufacturer

PRODUCT:

Description/ Method of manufacture
Blow moulded stackable jerrican performed in HDPE, details in report.



DIMENSIONS:

Weight of the jerrican, g	Volume, l	L*W*H, mm	Neck size, mm	Min. wall thickness, mm	Drawing
1051.2-1517.0	25.0	295*260*440	61/ 25	1.57	W3405 Rev.B
1490.1-1574.9	25.0	295*260*440	65/ 25	1.57	W3405 Rev.A
920.7-1331.9	20.0	295*260*370	61/ 25	1.57	W3405 Rev.C

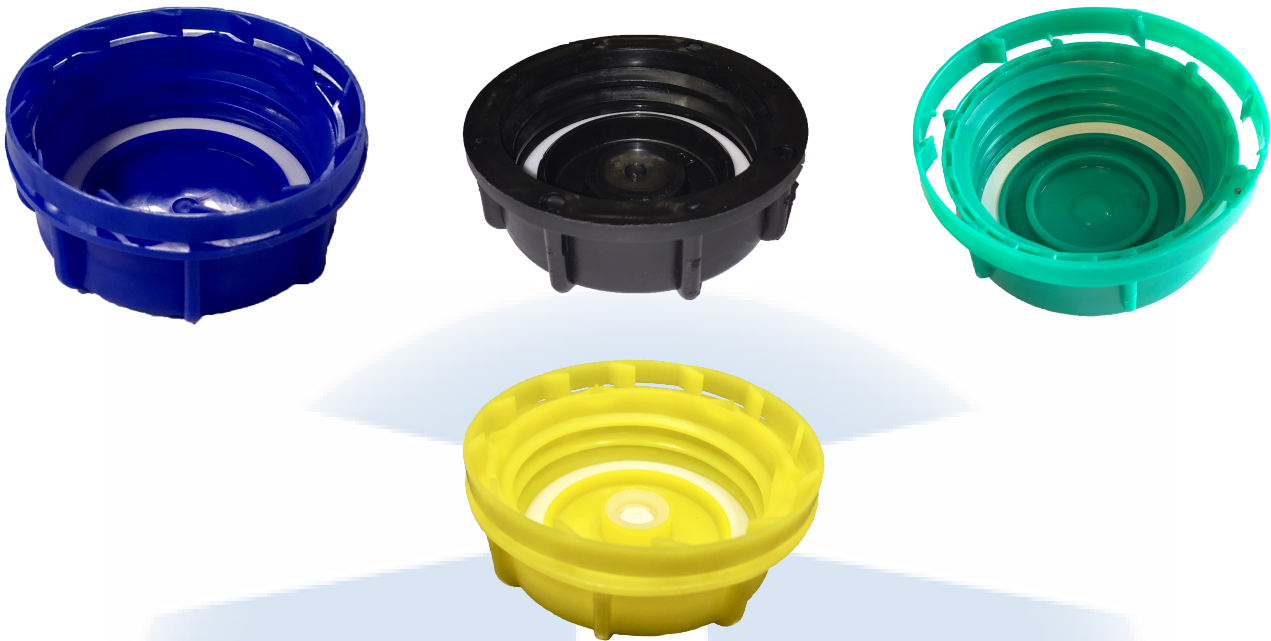
MAXIMUM DEGREE OF FILLING IN LITER AT 15 °C, SHALL BE:

Initial boiling point in °C	< 60	>= 60 < 100	>= 100 < 200	>= 200 < 300	>= 300
Degree of filling in liter	24.0	24.5	25.1	25.6	26.1

CLOSING MECHANISM:

#: Screw cap	Producer	Drawing	Material	Gasket	Torque
1: 61 mm	Bergi-plast GmbH	Kanisterverschluss nr. 61 rev 8	HDPE, details in report	EPE liner	20 Nm
2: 61 mm	RPC Promens Industrial UK	RPC Promens DIN 61 Ver.2	HDPE, details in report	EPE liner	20 Nm
3: 61 mm	Emballator Växjöplast AB	12575 18.08.15	HDPE, details in report	EPE/PET, EPE/IHS, EPE/ALU	20 - 25 Nm
4: 61 mm	SABEU Kunststoffwerke Northeim GmbH	37600x Rev.5	HDPE, details in report	EPE 300	20 Nm
5: 25 mm	Modulpac AB	25PMPP/7250001	HDPE, details in report	PET/ALKOzell/PET	3 Nm
6: 61 mm vented	Bergi-plast GmbH	00-1837	HDPE, details in report	EPE liner	25 Nm
7: 65 mm	AS OM BE Plast	Promens 65 mm m/PE Foam	HDPE, details in report	EPDM	25 Nm
8: 65 mm	AS OM BE Plast	Promens 65 mm m/PE Foam	HDPE, details in report	PE foam	25 Nm





LEGISLATION:

The certificate 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. To ensure validation of the certificate, check the NET website.

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.

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.

ICAO, Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IATA, Dangerous Goods Regulations, for the air transport.

TESTS CARRIED OUT:

Prototype tests performed and approved according to the above regulations:

6.1.5.2.6 Chemical compatibility

6.1.5.3 Drop test

6.1.5.4 Leakproofness test

6.1.5.5 Internal pressure test

6.1.5.6 Stacking test

6.1.5.7 Supplementary permeability test

APPROVAL IS VALID FOR:

The packaging is valid for packaging group II and III containing liquid substances covered by the liquids listed in the table below. The liquids marked with letter A - F are referring to standard liquids listed in ADR 6.1.6.1 and verified by chemical compatibility testing, ADR 6.1.5.2.6, to this specific liquid.

The dangerous substances allowed to transport in the packaging after chemical compatibility with these liquids, are listed in the "Assimilation list" table 4.1.1.21.6 in ADR.

The packaging shall always be used according to the requirements of the applicable UN-code and its packaging instructions.

Content	Max. relative density	Max. vapour pressure, kPa at +50°C	Jerrican # / Screw cap #
Standard liquid A: Wetting Solution	1.2	171	1,3 / 1-3,5
Standard liquid B: Acetic Acid	1.1	171	1,3 / 1-3,5,6
Standard liquid C: n-Butyl acetate	1.0	171	1,3 / 1-3,5
Standard liquid D: Mixture of hydrocarbons	1.0	171	1,3 / 1-3,5
Standard liquid E: Nitric Acid	1.4	171	1,3 / 1-3,5
Standard liquid F: Water	1.9	171	1,3 / 1-5
Formic Acid/Sodium formate solution, UN3412	1.4	171	2 / 7,8
Formic Acid, 85%, UN3412	1.2	171	2 / 7,8
FeF Benzalkonium chloride solution 50%, UN3265	1.0	114	1,3 / 1-3,5

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0250B	13.01.2016	NET	Type approval
NET0250A	13.01.2016	NET	Additional type test, cap
NET0250A3	02.12.2015	NET	Additional type test, cap
NET0250B2	05.04.2016	NET	Type approval, production site
NET02TE03	11.05.2016	NET	Technical evaluation, 20L
NET0250B4-NA	21.10.2016	NET	Additional type test, NA
NET02TE05	29.05.2017	NET	Technical evaluation, decrease inner Ø
NET0250B7	10.08.2017	NET	Typetest, Sabeu
NET16T04	02.01.2017	NET	Including liners
No.170129	24.08.2017	TÜV	Vented cap
NET0250B13	13.06.2018	NET	Additional type test, UN3412
NET1201T01	04.03.2019	NET	Additional test, UN3265

NET2812A	17.12.2020	NET	Additional test, 25PMPP
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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 and ISO13274.



BREVIK, NORWAY

31.05.2022 CERTIFICATE IS VALID UNTIL:

31.05.2027



Geir Morten Johansen
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification