



PRODUCT APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET0358E

HOLDER OF CERTIFICATE:
Greif Sweden AB

MANUFACTURER:

Greif Sweden AB, Kvekatorpsvägen 25, Box 203, , SE-311 23
Falkenberg, Sweden

MARKING ON PACKAGING:

 **1H1/Y1.6/200/YR/N/NET0358E-ID**

"YR" to be replaced with the two last digits of the year.

"ID" to be replaced by any identification as decided by the manufacturer.

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

PRODUCT:

Packaging code	Description	Drawing	Material
1H1, Plastics drums	Non-removable head	F3P-2771 C	HDPE, details in report


DIMENSIONS:

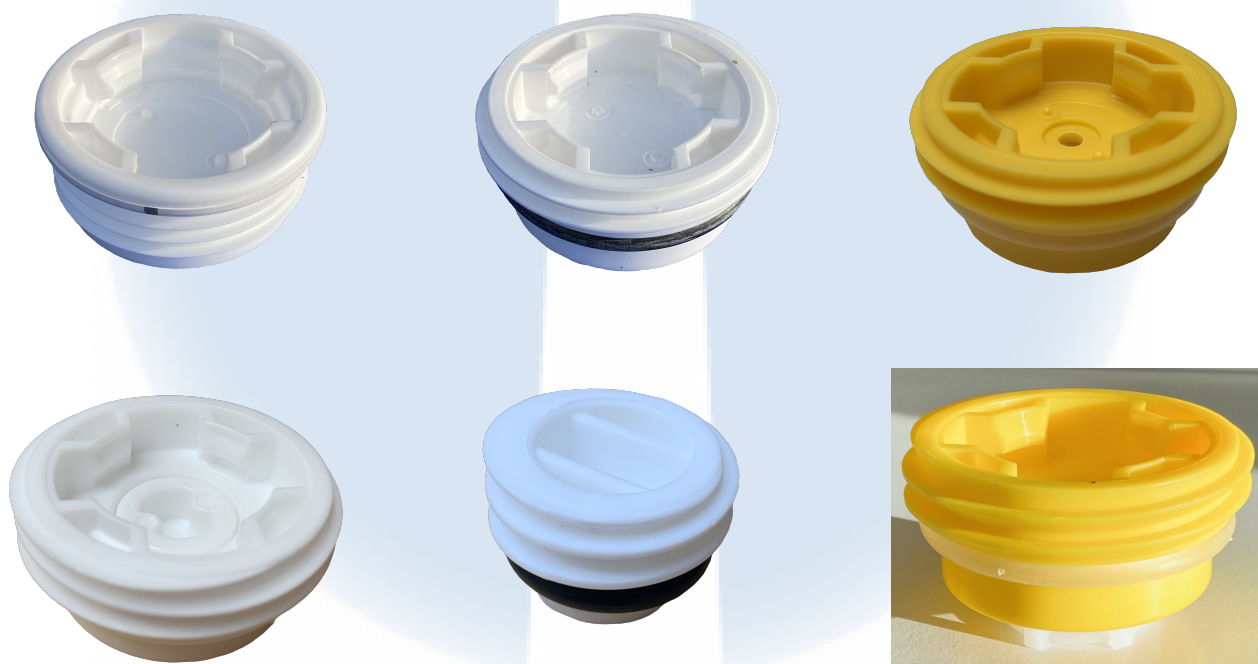
Weight of drum, g	Volume, l	Diameter, mm	Height, mm	Neck size, mm
8500	220.0	581	935	70 / 56

**FOR A FILLING TEMPERATURE OF 15 °C,
THE MAXIMUM DEGREE OF FILLING FOR THIS PACKAGING SHALL BE**

Initial boiling point of the substance in °C	< 60	> 59 < 100	> 99 < 200	> 199 < 300	> 299
Degree of filling as capacity of the packaging, l	201.2	205.7	210.2	214.6	219.1

CLOSING MECHANISM:

Bung	Producer	Drawings	Material	Gasket	Torque
1: 70 mm	Tri-Sure	TSF-2100020 Rev.2	PP details in report	O-ring, black rubber/ -PE	20 Nm
2: 56 mm	Tri-Sure	TSF-505099 Rev.10	PP details in report	Washer, white EPDM/ O-ring PE	20 Nm/ 25 Nm
3: 70*6 "D17" vented	Tri-Sure	TSF-2100035 Rev.3	PP details in report	O-ring, PE	20 Nm
4: 70*6 with 3/4"	Tri-Sure	TSF-2000032 Rev.2	PP details in report	O-ring, PE	20 Nm
5: 38*6	Tri-Sure	A-SP-636-3 Rev.1	PP details in report	O-ring, black rubber	20 Nm
6: 70*6 "D38" vented	Tri-Sure	TSF-21000061 Rev.2	PP details in report	O-ring, black rubber	20 Nm


APPROVAL:

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:

- 6.1.5.3 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
Standard liquid A: Wetting Solution	1.2	171
Standard liquid B: Acetic Acid	1.2	171
Standard liquid C: n-Butyl acetate	1.0	171
Standard liquid D: Mixture of hydrocarbons	1.0	171
Standard liquid E: Nitric Acid	1.4	171
Standard liquid F: Water	1.6	171

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0358E	26.10.2021	NET	Type approval

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. 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.

BREVIK, NORWAY

11.11.2021 CERTIFICATE IS VALID UNTIL:

30.11.2026

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 AS Certification