

TYPE APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET0358D

HOLDER OF CERTIFICATE:

Greif Sweden AB
MANUFACTURER:

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

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. The period of use permitted for the carriage of dangerous substances shall be five years from the date of manufacture of the drum, except where a shorter period of use is prescribed because of the nature of the substance to be carried.

u **1H1/Y1.9/200/YR/N/NET0358D - ID**

<u>u</u>	: The United Nations symbol
1H1	: Plastics drums, 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
NET0358D	: Identification of the drum

PRODUCT:

Method of manufacture/ Description

Plastic drums, non-removable head - drum performed in HDPE, details in report.


DIMENSIONS:

Weight of the drum, g	Volume, l	H*Ø, mm	Thickness, mm	Drawing
8500-8925	220	935 * 581	3.52	F3P-2771 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	200.3	204.8	209.3	213.7	218.2

CLOSING MECHANISM:

#: Closure type	Producer	Drawings	Material	Gasket	Torque
1: 56*4	Tri-Sure	TSF-505099 Rev.4	PP details in report	EPDM / PE	20 Nm EPDM / 25 Nm PE
2: 70*6 "D17" vented	Tri-Sure	TSF-2100035	PP details in report	PE	20 Nm
3: 70*6	Tri-Sure	TSF-2100020 Rev.2	PP details in report	EPDM / PE	20 Nm
4: 70*6 with 3/4	Tri-Sure	TSF-2000032 Rev. 2	PP details in report	PE	20 Nm
5: 38*6	Tri-Sure	A-SP-636-3	PP details in report	EPDM	20 Nm
6: 70*6 "D38" vented	Tri-Sure	TSF-21000061	PP details in report	PE	20 Nm



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 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.

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
Standard liquid A: Wetting Solution	1.2	171
Standard liquid B: Acetic Acid	1.1	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	1.9	171
Nitric acid 55% - 66%	1.4	171
Butylhydroperoxide 78%	1.0	171
HOE S 3551	1.2	171

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0358D	15.04.2015	NET	Type approval
NET0358B2	14.04.2015	NET	Selective testing

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 NS-EN ISO 16106:2020.

TEST STANDARD:


All tests are performed in accordance with NET accredited test method ATM001. The test method is accredited in accordance with NS-EN ISO/IEC 17025:2017 approved by Norsk Akkreditering and according to NS-EN ISO 16495:2022 and NS-EN ISO 13274:2013.



BREVIK, NORWAY

04.04.2025 CERTIFICATE IS VALID UNTIL:

30.04.2030



Mathias Werner
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification