

**TYPE 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:

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.

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

-  : The United Nations symbol
- 1H1 : Plastics drums, non-removable head
- Y1.6 : Packaging group II and III, max relative density 1.6
- 200 : Hydraulic test pressure in kPa
- YR : To be replaced with the year, last two digits, of manufacturer
- N : Norway, the state authorizing the allocation of the mark
- NET0358E - ID : Identification of the packaging followed by "ID" to be replaced by the name of the manufacturer

PRODUCT:

Description	Drawings	Material
Blow moulded plastics drums, non-removable head	F3P-2771 C	HDPE Lupolen 5261ZS



DIMENSIONS:

Weight of drum, g	Volume, l	Diameter, mm	Height, mm	Neck size, mm
8470 - 8910	220.0	581	935	70/ 56

MAXIMUM DEGREE OF FILLING IN LITER AT 15 °C, 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 in liter	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



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:

6.1.5.3 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

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

19.11.2024 CERTIFICATE IS VALID UNTIL:**30.11.2026**

Geir Morten Johansen
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification