

TYPE APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NETO393AX

HOLDER OF CERTIFICATE:

Greif Sweden AB

2260 kg max

MANUFACTURER:

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



MARKING ON PACKAGING:

Each IBC intended for use under ADR regulations shall bear markings that are durable, legible, and placed in a location where they are easily visible. The letters, numerals, and symbols shall be at least 12 mm high. The IBC shall also be marked in accordance with ADR 6.5.2.2 (Additional marking) and shall display the maximum permitted stacking load as per ADR 6.5.2.2.1 (as shown in the figure to the right).

For this Cross bottling IBC, the inner receptacle shall be marked as follows: 31HA1/Y/MMYY/NL/TCPI-GEFSEO1-150582/R, ADR 6.5.2.1.1 b) - f).

The permissible period of use for the carriage of dangerous substances is five years from the date of manufacture of the inner receptacle, unless a shorter period is required due to the nature of the substance being transported.

(n) 31HA1/Y/MMYY/N/NET0393AX - ID/3600/1997

(u) : The United Nations symbol

31HA1 : Composite IBCs with a rigid plastics inner receptacle, for liquids

Y : Packaging group II and III

MMYY : To be replaced with the month and year, last two digits, of manufacturer

N : Norway, the state authorizing the allocation of the mark

NET0393AX - ID : Identification of the IBC followed by "ID" to be replaced by the name or symbol of the manufacturer

3600 : The stacking load in kg

1997 : The maximum permissible gross mass in kg

PRODUCT:

Method of manufacture/ Description

1056 L IBC with blow-molded rigid plastic inner receptacle performed at Greif Sweden and outer galvanized steel cage and pallet according to Schütz BAM 14978 & BAM 14822



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DIMENSIONS:

| Packaging | Tara weight, kg | L*W*H, mm | Min. thickness, mm | Drawing |
|---------------------|-----------------|----------------|--------------------|---------------|
| IBC, wood pallet | 57.5 | 1200*1000*1145 | 1.4 | IBC Trä pall |
| IBC, plastic pallet | 58.0 | 1210*1000*1175 | 1.4 | 2066ppj0rev0 |
| IBC, hybrid pallet | 52.5 | 1210*1000*1155 | 1.4 | 2058ass0rev0 |
| IBC, steel pallet | 55.5 | 1195*1000*1160 | 1.4 | SteelBAM14822 |

CLOSING MECHANISM:

| Closure type | Description | Drawing | Material | Torque |
|----------------------|--------------------|--------------|--------------------|--------|
| Screw cap #1 | 150 mm | 2064co1rev0 | HDPE | 35 |
| Screw cap #2 | 150 mm, vented | 2001co0rev3 | HDPE | 35 |
| Screw cap #3 | 150 mm, vented | TSF-21000100 | HDPE | 35 |
| Screw cap #4 | 150 mm, vented | 2064co0rev2 | HDPE | 35 |
| Screw cap #5 | 220 mm | 2000co0rev4 | HDPE | 35 |
| Screw cap #6 | 220 mm | 2068co1rev0 | HDPE | 90 |
| Screw cap #7 | 220 mm, vented | 2068co0rev0 | HDPE | 90 |
| Valve #1 | 2" integrated nut, | 2017ass0rev5 | HDPE/PP/fibreglass | - |
| | butterfly | | | |
| Valve #2 | 2" weldable, | 2019cp1rev0 | HDPE/PP/fibreglass | - |
| | butterfly | | | |
| Valve #3 | 2" plunger | 2008ass0rev1 | HDPE | - |
| Valve #4 | 3" Integrated nut | 2015ass0rev4 | HDPE/PP/fibreglass | - |
| Valve #5, with liner | 2" weldable, | 2019ass0rev5 | HDPE | - |
| | butterfly | | | |
| Valve #6 | 2" integrated nut, | 2055ass0rev0 | HDPE/PP/fibreglass | - |
| | ball | | | |









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INNER PACKAGING/ACCESSORIES:

| Туре | Description | Drawing | Material |
|--------------------------|--------------------------|--------------|------------------|
| Inner receptacle Ø150 | Blow moulded | 2003bo0rev11 | HDPE |
| Inner receptacle Ø220 | Blow moulded | 2003bo0rev11 | HDPE |
| Outer casing | Galvanized pipe section. | O-P-14822 | Steel |
| | Lattice-type basket | | |
| | screwed onto a pallet | | |
| Corner protection | Black sheets of plastic | C-P-14978 | HDPE |
| Wood pallet | Board, plank | P-W-14978 | Wood |
| Plastic pallet | Blow moulded/Welded | P-P-14822 | HDPE |
| Hybrid pallet, BAM 14822 | Galvanized steel sheet | P-H-14822 | Plastic/Steel |
| Steel BAM, 14822 | Galvanized steel sheet | P-S-14822 | Galvanized steel |











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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.

TESTS CARRIED OUT:

Prototype tests performed and approved according to the above regulations:

6.5.6.4 Bottom lift test

6.5.6.6 Stacking test

6.5.6.7 Leakprooness test

6.5.6.8 Internal pressure test

6.5.6.9 Drop test

6.5.6.13 Vibration test

APPROVAL IS VALID FOR:

Transport of liquids in this IBC is allowed as long as a conventional pressure relief device is mounted. The start-to-discharge pressure shall not be higher than 65 kPa and not lower than the total gauge pressure experienced in the IBC. The IBC shall always be used according to the requirement of the applicable UN-code and its packaging instruction.

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.

| packaging instructions. | | | |
|---------------------------|-----------------------|-----------------------|-----------|
| Content | Max. relative density | Max. vapour pressure, | Screw cap |
| | | kPa at +50°C | |
| Standard liquid A: | 1.2 | 114 | 1-7 |
| Wetting Solution | | | |
| Standard liquid B: Acetic | 1.1 | 114 | 1-7 |
| Acid | | | |
| Standard liquid C: | 1.0 | 114 | 1-7 |
| n-Butyl acetate | | | |
| Standard liquid D: | 1.0 | 114 | 1-7 |
| Mixture of hydrocarbons | | | |
| Standard liquid E: Nitric | 1.4 | 114 | 1-7 |
| Acid | | | |
| Standard liquid F: Water | 1.9 | 114 | 1-8 |

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DOCUMENTS BASED UPON FOR APPROVAL:

| Report id. | Date | Issued by | Scope |
|------------|------------|-----------|----------------------|
| NET0359CX | 04.07.2019 | NET | Type approval, Cross |
| | | | bottling |
| NET03TE37 | 30.08.2019 | NET | Technical evaluation |

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

30.09.2024 CERTIFICATE IS VALID UNTIL:

Rune Madsen Fink

Control Officer

30.09.2029

Geir Morten Johansen Certification Officer

Cari Ma Copa

Nordisk Emballasje Testing Certification

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