

TYPE APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET0316C

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.

Ⓢ **1A2/Y1.3 Z1.9/160/YR/N/NET0316C - ID**

- Ⓢ : The United Nations symbol
- 1A2 : Steel drums, removable head
- Y1.3 Z1.9 : Packaging group II and III, and max relative density
- 160 : Hydraulic test pressure in kPa
- YR : To be replaced with the year (last two digits) of manufacture
- N : Norway, the state authorizing the allocation of the mark
- NET0316C - ID : Identification of the packaging followed by "ID" to be replaced by the name of the manufacturer

PRODUCT:

Description	Method of manufacture	Material	Drawing
Triple seamed corrugated rolling hoop drum	Seamed	Steel DC01	F3F-2783 Rev. B F3F-2783-1 Rev. B



DIMENSIONS:

Volume, l	H*Ø, mm	Head/ Body/ Bottom, mm
210	877*595	1.2/ 1.0/ 1.0

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	191.1	195.3	199.5	203.8	208.9

CLOSING MECHANISM:

Closure type	Drawings	Material	Gasket	Torque
Clamping ring with lever arm	A4F-2674 270103	DX51D+Z100	-	-
Clamping ring with lever arm	1018-22 070415	DX51D+ Z	-	-
Clamping ring with lever arm	CLRI00203GGG000 1	DX51D+ Z	-	-
Plain lid	D3F-2595 Rev. B	DC01	EPDM 12 mm	-
Lid with 2" bung	D3F-2595 Rev. B	DC01	EPDM 12 mm	-
Lid with 2" and 3/4" bung	D3F-2595 Rev. B	DC01	EPDM 12 mm	-
3/4" bung	TSN-925096	Zinc-plated Mild steel	EPDM / PE / Nitrile	15
2" umbrella vent-out	TSN-939324	Zinc-plated Mild steel	EPDM / PE / Nitrile	20
2" umbrella vent-in	TSN-939323	Zinc-plated Mild steel	EPDM / PE / Nitrile	20
2"	TSN 925089	Zinc-plated Mild steel	EPDM / PE / Nitrile	20



INNER PACKAGING:

Type	Description	Drawing	Material	*Gasket
GK Inner liner	Plastics bag/ -top sheet	602162-L	LDPE	*EPDM 11 mm used together with liner



LEGISLATION:

NET issues the certification on described product according to delegated authority from Norwegian 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 hydraulic pressure test

6.1.5.6 Stacking test

APPROVAL IS VALID FOR:

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

Content	Packaging group	Max. relative density	Max. vapour pressure, kPa at +50°C
Liquid substances that do not adversely affect the packaging materials	II	1.3	149
Liquid substances that do not adversely affect the packaging materials	III	1.9	149

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0316C-1	05.04.2013	NET	Type approval
NET0316C-k	11.04.2011	NET	Type approval
NET03T15	27.02.2012	NET	Type testing/ Technical evaluation
NET0316C2k	04.11.2014	NET	Type approval
NET03T25	02.02.2015	NET	Type testing
NET03TE36	13.06.2019	NET	Technical evaluation
NET0316C2	27.03.2023	NET	Additional type test, ring

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.



BREVIK, NORWAY

16.05.2023 CERTIFICATE IS VALID UNTIL:

31.05.2028



Mathias Werner
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification