

**TYPE APPROVAL OF PACKAGING FOR
TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET0345A**

HOLDER OF CERTIFICATE:

Greif Sweden AB

MANUFACTURER:

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

MARKING ON PACKAGING:

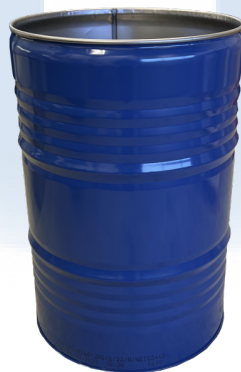
Each packaging intended for use according to the ADR shall bear markings which are durable, legible and placed in a location as to be readily visible. Letters, numerals and symbols shall be at least 12 mm high.

Ⓢ **1A2/Y1.5 Z2.2/100/YR/N/NET0345A - ID**

- Ⓢ : The United Nations symbol
- 1A2 : Steel drums, removable head
- Y1.5 Z2.2 : Packaging group II and III, and max relative density
- 100 : 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
- NET0345A - 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 neck in corrugated W hoop drum	Seamed	Steel DC01	F3P-2791 Rev.B



DIMENSIONS:

Volume, l	H*Ø, mm	Head/ Body/ Bottom, mm
210	866*582	1.0/ 1.0/ 1.0

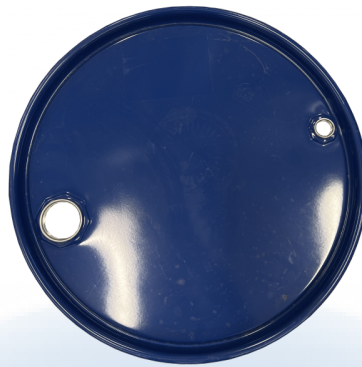
MAXIMUM DEGREE OF FILLING IN LITER AT 15 °C, SHALL BE:

Initial boiling point in °C	< 60	>= 60 < 100	>= 100 < 200	>= 200 < 300	>= 300
Degree of filling in liter	191.5	195.7	200.0	204.2	208.5

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	CLRI00193GGG000	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





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	Max. vapour pressure, kPa at +50°C
Liquid substances that do not adversely affect the packaging materials	114

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0345A	24.05.2011	NET	Type approval
NET03T15	27.02.2012	NET	Type testing/ Technical evaluation
NET0345B1	04.11.2014	NET	Type testing
NET0345B3	12.03.2015	NET	Additional type testing
NET0345A2	18.10.2018	NET	Additional type testing, incr. sg
NET0345A3	13.05.2020	NET	Additional type testing, vent
NET0345B4	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.

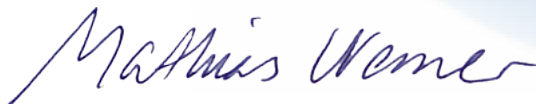
TEST STANDARD:

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

24.05.2023 CERTIFICATE IS VALID UNTIL:

31.05.2028


 Mathias Werner
 Certification Officer



 Rune Madsen Fink
 Control Officer

Nordisk Emballasje Testing Certification