PRODUCT APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET0359B

HOLDER OF CERTIFICATE:
Greif Sweden AB

2260 kg max



MANUFACTURER: Greif Sweden AB, Box 23, SE-311 23 Falkenberg, Sweden

MARKING ON PACKAGING: u n **31HA1/Y/MMYY N/NET0359B - ID 4069/2017**

"MMYY" to be replaced with the month and year (last two digits) of manufacture.
"ID" to be replaced by the name or symbol of the manufacturer.
Each IBC shall also be marked according to 6.5.2.2.1 ADR/RID/IMDG, and each inner receptacle shall be marked according to 6.5.2.2.4 ADR/RID/IMDG.

PRODUCT:

Packaging code	Description	Material
31HA1, Composite IBC	With a rigid plastics inner receptacle and outer casing of steel	Plastic / Steel / Wood, details in report



DIMENSIONS:

Packaging	Tara weight, kg	Volume, l	Height, mm	Width, mm	Length, mm
IBC, wood pallet	58.0	1056	1170	1000	1200
IBC, plastic pallet	54.0	1056	1170	1000	1200
IBC, hybrid pallet	53.9	1056	1160	1000	1200

NET Emballasje- og Produkttesting AS
Blekebakkvegen 45
N-3950 Brevik
Telephone +47 900 17025
E-mail: info@net17025.com
Web: www.net17025.com
VAT No.: 990 793 840
Bank account: 6250.05.22351
GPS: 59°03'25'' N 9°40'70'' E

CLOSING MECHANISM:

Closure type	Description	Drawing	Material	Torque, Nm
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, butterfly	2017ass0rev5	HDPE/PP/fibreglass	-
Valve #2	2" weldable, butterfly	2019cp1rev0	HDPE/PP/fibreglass	-
Valve #3	2" plunger	2008ass0rev1	HDPE	-
Valve #4	3" integrated nut	2015ass0rev4	HDPE/PP/fibreglass	-
Valve #5, with liner	2" weldable, Butterfly	2019ass0rev5	HDPE	-
Valve #6	2" integrated nut, ball	2055ass0rev0	HDPE/PP/fibreglass	-
Screw cap #8	150 mm	2071ass0rev0	HDPE	35









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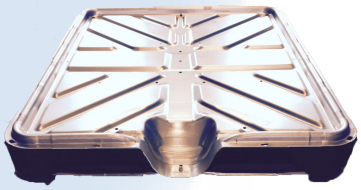
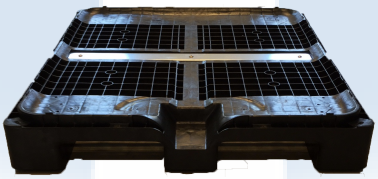
INNER PACKAGING/ACCESSORIES:

Type	Description	Drawing	Material
Inner receptacle Ø150	Blow moulded	2003bo0rev11	HDPE
Inner receptacle Ø220	Blow moulded	2003bo0rev11	HDPE
Outer casing	Galvanized pipe section. Lattice-type basket screwed onto a pallet	2014ga0rev2	Steel
Corner protection	Black sheets of plastic	FS-0003 revA	HDPE
Wood pallet	Board, plank	IBC Trä pall	Wood
Plastic pallet	Blow moulded/Welded	2066ppj0rev0	HDPE
Hybrid pallet	Standard Nuovo	2058ass0rev0	Plastic/Steel



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APPROVAL:
The certificate 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. To ensure validation of the certificate, check the NET website.
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 - 06/6950-7/BJRU.

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.

APPROVAL IS VALID FOR:
The packaging is valid for packaging group II and III containing liquid substances that are 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 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. The 2" weldable butterfly valve (listed as #5) is only approved with a welded aluminum liner between neck and cap.

The following test are performed and approved according to ADR:
6.5.6.4 Bottom lift test
6.5.6.6 Stacking test
6.5.6.7 Leakproofness test
6.5.6.8 Internal pressure test
6.5.6.9 Drop test
6.5.6.13 Vibration test

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Content	Max. relative density	Max. vapour pressure, kPa at +50°C	Packaging group	Closure
Standard liquid A: Wetting Solution	1.6	114	II and III	1-7
Standard liquid B: Acetic Acid	1.6	114	II and III	1-7
Standard liquid C: n-Butyl acetate	1.5	114	II and III	1-7
Standard liquid D: Mixture of hydrocarbons	1.5	114	II and III	1-7
Standard liquid E: Nitric Acid	1.5	114	II and III	1-7
Standard liquid F: Water	1.9	114	II and III	1-8
FeF Benzalkonium chloride solution 50%, UN3265	1.0	114	III	1-7

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0359B2	02.05.2016	NET	Type testing, Ws, Wa, Aa & n-Ba
NET0359B	03.06.2016	NET	Type Approval, water & Na
NET0359A	03.06.2016	NET	Type Approval
160058, Rev.0	24.06.2016	TÜV	Vibration testing, plastic pallet
Report 100068.3	31.03.2010	TÜV	Vibration testing, wooden pallet
Report 100068.4	31.03.2010	TÜV	Vibration testing, hybrid pallet
GV/gv/T-15.039	23.10.2015	IBE-BVI	Additional cap, #4
NET03TE32	21.03.2017	NET	Technical evaluation, bubble weight
NET03TE33	19.05.2017	NET	Technical evaluation, cap #1
NET03T28	23.03.2018	NET	Additional type test, cap #6, #7
NET1201T01	04.03.2019	NET	Additional test, UN3265
NET0359A6	10.12.2020	NET	Additional cap, #8

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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 and ISO13274.
The packagings shall be manufactured, reconditioned and tested under a quality assurance programme which satisfies NET Certification, in order to ensure that each packaging meets the requirements in ADR and the guidelines in ISO 16106.

NORSK AKKREDITERING TEST 259

BREVIK, NORWAY **03.05.2021** CERTIFICATE IS VALID UNTIL: **31.05.2026**

Geir Morten Johansen
Certification Officer

Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing AS Certification

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