TYPE APPROVAL OF PACKAGING FOR TRANSPORT OF DANGEROUS GOODS CERTIFICATE NO.: NET18105A

CERTIFICATE HOLDER:
LiProPac AB

RESPONSIBLE DISTRIBUTOR: LiProPac AB, Backa Bergögata 11, 422 46 Hisings Backa, Sweden

UN MARKING:
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.

(un) 4G/XKG YKG ZKG/S/YR/N/NET18105A - ID

(un)	: The United Nations symbol
4G	: Fibreboard boxes
XKG YKG ZKG	: Packaging group I, II and III, max gross mass listed under "Approved Contents"
S	: Intended for carriage of inner packagings, see Approved content table
YR	: To be replaced with the year (last two digits) of manufacture
N	: Norway, the state authorizing the allocation of the mark
NET18105A - ID	: Identification of the packaging followed by "ID" to be replaced by the name of the manufacturer

PACKAGING DESIGN:

Description	Manufacturer´s joint	Material
FEFCO 0201, slotted type	Glued: boxes 1, 2, 3, 4, 4LB and 5. Stitched: box 6.	Corrugated fibreboard, double wall board, details in report



DIMENSIONS:

#: Volume, l	L*W*H, mm	Drawing	Explosive approved	Pressure tested
DGM 1: 7	166*146*322	S847431	Yes	Yes
DGM 2: 21	276*206*372	S847432	No	Yes
DGM 3: 25	326*246*312	S847433	No	Yes
DGM 4: 36	366*266*372	S847436	No	Yes
DGM 4LB: 52	536*336*292	S847435	Yes	Yes
DGM 5: 51	436*316*372	S847434	No	Yes
DGM 6: 65	386*386*442	S847430	No	Yes

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Bank account: 6250.05.22351
GPS: 59°03'25'' N 9°40'70'' E

CLOSURES AND FITTINGS:

Closure type	Producer	Dimensions, mm	Material	Packaging #
"O" - pattern, 75 mm overlap	Boxon pack AB	0.5 * 75	LDPE reinforced with glass-fibre crossarmed	1, 2, 3, 4, 4LB, 5, 6
2 * Strapping	Any	12	PP	6



INNER PACKAGING:

#: Type	Producer	Volume, l	Material
DGM IP1	Emballator Mellerud AB	0.5	HDPE
DGM IP2	Emballator Mellerud AB	1.0	HDPE
DGM IP3	Emballator Mellerud AB	0.5	HDPE
DGM IP4	Emballator Mellerud AB	1.0	HDPE
DGM IP5	Emballator Mellerud AB	4.0	HDPE
DGM IP6	Emballator Mellerud AB	5.0	HDPE
DGM IP7	Metalscatola S.p.A.	0.5	Steel
DGM IP8	Metalscatola S.p.A.	1.0	Steel
DGM IP9	Metalscatola S.p.A.	3.0	Steel
DGM IP10	Metalscatola S.p.A.	5.0	Steel
DGM IP11	Emballator Mellerud AB	10.0	HDPE
DGM IPF 1	Boxes & Labels	2.0	Fibreboard box
DGM IPF 2	Boxes & Labels	5.6	Fibreboard box
DGM IPF 3	Boxes & Labels	7.2	Fibreboard box
DGM IPF 4	Boxes & Labels	13.3	Fibreboard box
DGM IPF 4LB	Boxes & Labels	26.5	Fibreboard box
DGM IPF 5	Boxes & Labels	21.6	Fibreboard box
DGM IPF 6	Boxes & Labels	30.5	Fibreboard box
DGM IPF 7	Boxes & Labels	45.1	Fibreboard box

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AUTHORITY:
NET issues this certification pursuant to delegated authority from the Norwegian Directorate for Civil Protection (DSB), in accordance with the Regulation of 1 April 2009 No. 384 on the land transport of dangerous goods, Chapter 6a (ref. 2023/4375 PRAX). NET is designated as the competent body for allocation of the UN mark on packagings, including IBCs and large packagings, as published by the United Nations (UNECE) list of competent authorities.
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.

APPLICABLE REGULATIONS:
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 PERFORMED:
Prototype tests performed and approved according to the above regulations:
6.1.5.2.3 Preparation of packaging, relative humidity
6.1.5.3 Drop test
6.1.5.6 Stacking test

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

For DGM 4LB containing liquids, the inner packagings DGM IP1-IP11 listed in this certificate are approved when packed with suitable packaging chips, in accordance with the evaluated packing arrangements.
The approval covers packing groups II and III, with a maximum relative density of 1.4.

APPROVED CONTENT:

#: Configuration and contents	Max gross mass in packaging group I, kg	Max gross mass in packaging group II, kg	Max gross mass in packaging group III, kg
1: Liquid in innerpackaging	5	7	11
2: Liquid in innerpackaging	20	30	40
3: Liquid in innerpackaging	25	30	40
4: Liquid in innerpackaging	25	35	40
4LB: UN3480 lithium ion batteries	35	45	50
4LB: Liquids in DGM IP1-IP11, packed with suitable packaging chips; max. relative density 1.4	-	17	25
5: Liquid in innerpackaging	35	45	50

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6: Liquid in innerpackaging	45	65	75
1: UN1950, Aerosols	-	7	-
2: UN1950, Aerosols	-	30	-
3: UN1950, Aerosols	-	30	-
4: UN1950, Aerosols	-	35	-
5: UN1950, Aerosols	-	45	-
6: UN1950, Aerosols	-	55	-
1: UN2794, UN2795 and UN2800 - Batteries, wet, non-spillable	-	7	-
2: UN2794, UN2795 and UN2800 - Batteries, wet, non-spillable	-	30	-
3: UN2794, UN2795 and UN2800 - Batteries, wet, non-spillable	-	30	-
4: UN2794, UN2795 and UN2800 - Batteries, wet, non-spillable	-	35	-
5: UN2794, UN2795 and UN2800 - Batteries, wet, non-spillable	-	45	-
6: UN2794, UN2795 and UN2800 - Batteries, wet, non-spillable	-	60	-
1: UN3356, Oxygen generator, chemical	-	7	-
2: UN3356, Oxygen generator, chemical	-	30	-
3: UN3356, Oxygen generator, chemical	-	30	-
4: UN3356, Oxygen generator, chemical	-	35	-
5: UN3356, Oxygen generator, chemical	-	45	-
6: UN3356, Oxygen generator, chemical	-	60	-
1: UN3480, Lithium ion batteries	-	7	-
2: UN3480, Lithium ion batteries	-	30	-
3: UN3480, Lithium ion batteries	-	30	-
4: UN3480, Lithium ion batteries	-	35	-

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5: UN3480, Lithium ion batteries	-	45	-
6: UN3480, Lithium ion batteries	-	60	-
1: UN3090, Lithium metal batteries	-	7	-
2: UN3090, Lithium metal batteries	-	30	-
3: UN3090, Lithium metal batteries	-	30	-
4: UN3090, Lithium metal batteries	-	35	-
5: UN3090, Lithium metal batteries	-	45	-
6: UN3090, Lithium metal batteries	-	60	-

DOCUMENTS FORMING THE BASIS FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET12503A#4LB	26.03.21	NET	Type approval
NET12503A#6	25.03.21	NET	Type approval
NET12503A#5	25.03.21	NET	Type approval
NET12503A#4	25.03.21	NET	Type approval
NET12503A#3	25.03.21	NET	Type approval
NET12503A#2	18.03.21	NET	Type approval
NET12503A#1	18.03.21	NET	Type approval
NET125TE01	06.01.21	NET	Technical evaluation
NET12504A2	29.06.26	NET	Technical evaluation
NET12503#4LB2	15.10.26	NET	Selective test - DGM 4LB, liquids
125TE02#4LB2	15.10.26	NET	Technical evaluation - NET12503#4LB2

VALIDITY:

This approval is valid for five (5) years, provided no modifications are made to the packaging design, materials, dimensions, closure system, or method of construction.
The certificate may be withdrawn at any time.
The published version on www.net17025.com/Sertifisering/UN_ADR/cid/30758/ shall always be considered the valid one.
The certificate holder/manufacturer must notify NET Certification of any changes that may influence transport safety.
Continued validity requires 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 programme meeting ADR requirements and guidelines in NS-EN ISO 16106:2020.

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TEST METHODS AND STANDARDS:
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.

NORSK AKKREDITERING TEST 259

BREVIK, NORWAY **03.11.2026** CERTIFICATE IS VALID UNTIL: **30.06.2030**

Mathias Werner
Certification Officer

Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification

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