TYPE APPROVAL OF PACKAGING FOR TRANSPORT OF DANGEROUS GOODS CERTIFICATE NO.: NET3221C

CERTIFICATE HOLDER:

DS Smith Packaging Sweden AB

MANUFACTURING SITE: DS Smith Packaging Sweden AB, Bangårdsgatan 2-4, SE-331 26 Värnamo, SWEDEN
DS Smith Packaging Sweden AB, Förrådsgatan 15, SE-542 35 Mariestad, 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/S/YR/N/NET3221C-ID

(un)	: The United Nations symbol
4G	: Fibreboard boxes
XKG YKG	: Packaging group I and II, max gross mass in kg, see content table
S	: Intended for carriage of inner packagings, see content table
YR	: To be replaced with the year (last two digits) of manufacture
N	: Norway, the state authorizing the allocation of the mark
NET3221C-ID	: Identification of the packaging followed by "V" for Värnamo or "M" for Mariestad

PACKAGING DESIGN:

Description/ Method of manufacture	Manufacturer´s joint	Material/ thickness
FEFCO 0201, slotted type	Glued	Corrugated fibreboard, double wall board, details in report/ 6.9 mm



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Blekebakkvegen 45
N-3950 Brevik

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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

DIMENSIONS:

Box #: Volume, l	L*W*H, mm	Explosive approved	Pressure tested	Drawing
1: 275.5	785*585*600	Yes	No	KD45834
2: 75.4	785*240*400	Yes	No	M107060
3: 46.1	600*320*240	Yes	No	KD05195
5: 48.0	400*300*400	No	No	M107815
6: 48.0	400*300*400	Yes	No	V18185
7: 33.8	475*285*250	Yes	No	M89663
8: 5.7	200*190*150	Yes	No	KD54672
11: 12.0	280*190*225	Yes	No	M86517
17: 6.7	160*160*260	No	No	KD12413
19: 2.8	180*180*85	No	No	FPS 408802
20: 6.9	190*190*190	No	No	KD05961
21: 15.9	220*190*380	Yes	No	KD06020
25: 12.3	290*250*170	No	No	FPS102682
29: 10.9	300*243*150	Yes	No	KD07081
30: 23.1	318*238*305	Yes	No	KD58129
34: 29.2	380*260*295	No	No	V00436
35: 29.2	380*260*295	Yes	No	V25870
38: 34.2	383*223*400	Yes	No	M71447
42: 31.0	440*220*320	Yes	No	V23880
44: 28.7	475*285*212	Yes	No	KD02156
45: 76.7	475*475*340	Yes	No	M108132
47: 46.0	510*410*220	Yes	No	M107060
54: 41.9	700*260*230	No	No	GD24690
56: 15.7	330*280*170	Yes	No	V00436
58: 32.3	420*275*280	Yes	No	SD08682
60: 39.4	590*290*230	Yes	No	SD22708

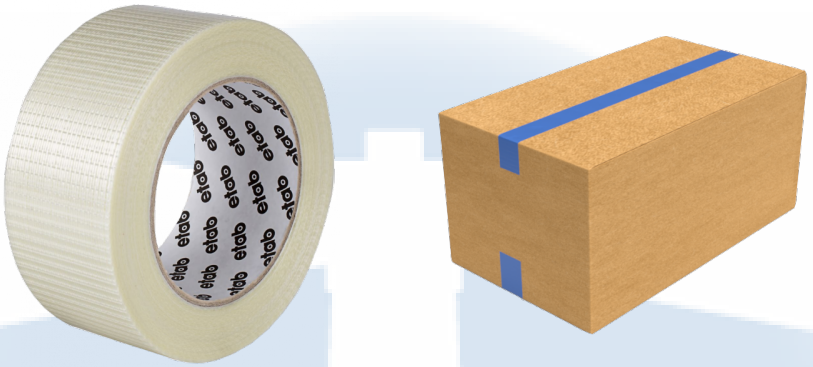
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CLOSURES AND FITTINGS:

Closure type	Producer	Drawings	Description	Dimensions	Material
Tape	Etab	Eurocol 75003016 50 mm	Tape method; "U-pattern", 50 mm over every edge	0,12 * 50 mm	ETAB Glass fibre, cross armed 810



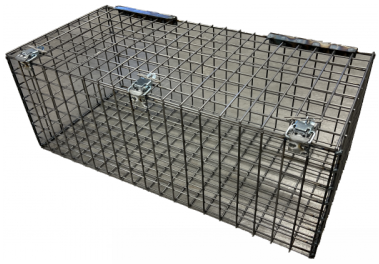
INNER PACKAGING:

Type of packaging	Producer / Distributor	Packaging #
Plastic bag where the size adjusts the current outer packaging	Any producer, Thickness at least 47 µm, Tear resistance at least, MD/TD 2.5 / 8.7 N, Seal strengt at least 11 MPa	1-6, 11-25, 30-42, 54, 58
Cardboard box designed to fit each content and outer packaging	-	7, 8, 29, 44, 45, 47
Steel Cage	Hansson PyroTech AB	56, 60
Plastic pails with lid, 4 pcs, 2 L, packed in two layers	Noax Sys AB	38
Pyrotechnic articles packed according to P135 and adequately protected against movement and inadvertent initiation, covered by the transport classification approvals referenced in this certificate may be packed	UNIQUE PYROTECHNIC	6, 21, 35

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AUTHORITY:
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.

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, relativ 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.

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APPROVED CONTENT:

Approved content	Max gross mass in packaging group I, kg	Max gross mass in packaging group II, kg
Solids (Granules only, packed in a plastic bag, not articles)	Box 1: 26 kg Box 5: 35 kg Box 17: 5 kg Box 19: 2 kg Box 21: 12 kg Box 25: 9 kg Box 34: 21 kg	Box 1: 50 kg Box 2: 30 kg Box 3: 25 kg Box 5: 45 kg Box 6: 34 kg Box 11: 25 kg Box 19: 3 kg Box 21: 19 kg Box 25: 20 kg Box 30: 23 kg Box 34: 31 kg Box 35: 25 kg Box 38: 28 kg Box 42: 26 kg Box 54: 20 kg Box 58: 17 kg
UN0339, CARTRIDGES FOR WEAPONS, INERT PROJECTILE or CARTRIDGES, SMALL ARMS		Box 8: 15 kg
UN0373, SIGNAL DEVICES, HAND		Box 29: 19 kg Box 56: 17 kg
UN0195, SIGNALS, DISTRES		Box 7: 38 kg Box 45: 43 kg
UN0186, ROCKET MOTORS		Box 7: 38 kg
UN0197, SIGNALS, SMOKE		Box 44: 33 kg Box 45: 43 kg Box 47: 20 kg
UN0507, SIGNALS, SMOKE		Box 47: 20 kg
UN0240, ROCKETS, LINE-THROWING		Box 29: 19 kg Box 45: 43 kg
UN0191, SIGNAL DEVICES, HAND		Box 29: 19 kg Box 45: 43 kg
UN 0403 FLARES, AERIAL		Box 60: 25 kg
UN 0507 SIGNALS, SMOKE		Box 60: 25 kg
UN 0453, ROCKETS, LINE-THROWING		Box 60: 25 kg
UN 0506, SIGNALS, DISTRESS, ship		Box 60: 25 kg
UN0478, SUBSTANCES, EXPLOSIVE, N.O.S., according to report NET22501A		Box 38: 11 kg
UN0431, ARTICLES, PYROTECHNIC for technical purposes, 1.4G, subject to the conditions specified in technical evaluation NET32TE63 and the referenced transport classification approvals		Box 6: 34 kg Box 21: 19 kg Box 35: 25 kg

DOCUMENTS FORMING THE BASIS FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET3221C#60	02.12.24	NET	Type approval
NET3221C2#34	05.01.19	NET	Type approval
NET3221C#5	04.04.19	NET	Type approval
NET3221C#60.2	12.03.25	NET	Type approval

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NET22501A	30.06.26	NET	Additional type test, UN 0478
NET32TE63	30.10.26	NET	Technical evaluation, UN0431
22/EM0495	08.09.2022	TNO	Transport Classification
2024-05962	22.05.2024	MSB	Transport Classification T2
2025-04274	25.04.2025	MSB	Transport Classification Falls/Gerbs
2025-10715	29.10.2025	MSB	Transport Classification T1/T2

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 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 **30.10.2026** CERTIFICATE IS VALID UNTIL: **30.06.2031**

Mathias Werner
Certification Officer

Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification

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