

TRANSPORTING DANGEROUS GOODS SAFELY



ECO DRUM – SAFE KRAFTLINER PACKAGING FOR DANGEROUS GOODS

DENSA AG



THE ADVANTAGES

ECO DRUM: more efficiency, safety and sustainability



1

More operational efficiency thanks to space-saving storage and automated processes

2

More logistical efficiency through perfect utilisation of loading volume

3

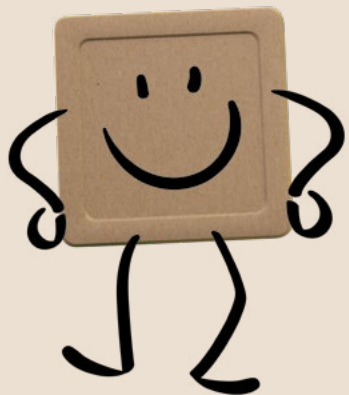
More sustainability thanks to recyclable materials

1 MORE LOGISTIC EFFICIENCY in your company

More efficient processes due to square shape:

- More material can be stored and handled simultaneously, as the drums take up less space
- Automation of filling and palletising saves additional resources.

+40%
OPERATIONAL
EFFICIENCY



2 ECO DRUM AND ROUND FIBRE DRUM a comparison



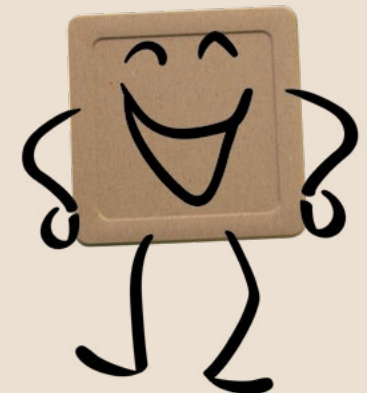
VOLUME
59'000
LITRES



VOLUME
44'800
LITRES

ECO DRUM is aligned to the dimensions of EURO or CP3 pallets and ensures the most efficient use of the means of transport.

-30%
TRANSPORT COSTS

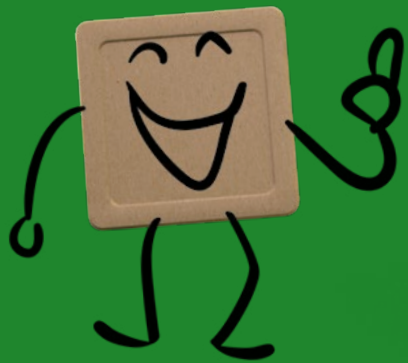


3 MORE SUSTAINABILITY

thanks to recyclable materials

100%
RECYCLABLE

100%
PAPER



ECO DRUM

- High-quality, long-fibre paper
- May be disposed of as waste paper
- Can also be folded together to save space

METAL

PAPER

PLASTIC



FIBRE DRUM

- Costly disposal of multiple materials





THE PRODUCTS

ECO DRUM

1G dangerous goods packaging

- Approved for packaging groups I, II and III (Hazard Class X)
- Maximum capacity of 155 kg
- Volumes between 14 L and 150 L (height: 105–1130 mm)
- Footprint designed to fit all common pallets (width × depth: 370×370 mm)
- Only suitable for pasty or powder materials
- Made entirely of kraft paper and contains no foreign materials (e.g. metal)

ONE FOOTPRINT – variable height

from 105 – 1130 mm

ECO DRUMS are individually manufactured to customers' requirements. The square 370×370 mm footprint makes the best possible use of the capacity of the most popular pallets. Heights varying between 105 mm and 1130 mm can be chosen for the drums. The maximum capacity is 150 litres.





TRANSPORT SAFETY

Quality management with case reviews

DENSA AG operates an ISO 9001 and ISO 140001 quality management system. As manufacturers of UN-tested packaging, we are monitored by Swiss Safety Center and comply with the EN ISO 16106 standard. Regular drop testing and stack crush testing is carried out in accordance with this standard.

HIGH LEVEL OF SAFETY

when transporting dangerous goods

- Design type approvals ®-Nr. 4206119 and 4207047
- 1G packaging
- Approved for solids in packaging groups I, II and III (Hazard Class X)
- The slip lid is self-locking with no additional need to use adhesive tape
- The approval includes a 100 µm foil bag as an internal liner



PRODUCT OVERVIEW

ecodrum.ch

ECO DRUM S
with slip lid



Height

105–249 mm

Length × width

370×370 mm

Volume

14–33 L

No. of layers

7 (300gr/m²)

Labelling/Printing



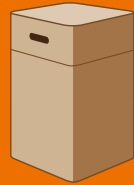
Closure

adhesive tape

UN approval

X/Y/Z

ECO DRUM M
with slip lid



Height

250–900 mm

Length × width

370×370 mm

Volume

33–120 L

No. of layers

6 (300gr/m²)

Labelling/Printing



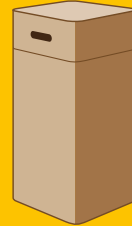
Closure

no closure
adhesive tape
Eco Clip

UN approval

X/Y/Z

ECO DRUM L
with slip lid



Height

901–1130 mm

Length × width

370×370 mm

Volume

120–150 L

No. of layers

7 (300gr/m²)

Labelling/Printing



Closure

no closure
adhesive tape
Eco Clip

UN approval

X/Y/Z

ECO DRUM GREEN
with slip lid



Height

250–900 mm

Length × width

370×370 mm

Volume

33–120 L

No. of layers

7 (300gr/m²)

Labelling/Printing



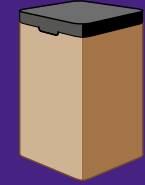
Closure

no closure
adhesive tape
Eco Clip

UN approval

X/Y/Z

ECO DRUM Hybrid
with plastic lid



Height

160–900 mm

Length × width

370×370 mm

Volume

30–120 L

No. of layers

6 (300gr/m²)

Labelling/Printing



Closure

integrated into lid

UN approval

none

PRODUCT DETAILS

ECO DRUM **S** the space saving genius

S



ECO DRUM S provides extremely robust packaging for small volumes from 14 to 33 litres. Its shorter lid gives it compact external dimensions with heights between 105 and 249 mm. Approved for dangerous goods classes X, Y and Z.

ECO DRUM **M** the efficient all-rounder

M



ECO DRUM M is available in capacities from 33 to 120 litres with a height between 250 and 900 mm. Thanks to the use of an innovative glue, the walls can be up to six layers thick. This conserves resources and produces less waste. If desired, the lid can be sealed with adhesive tape or using an **ECO CLIP** closure. Approved for dangerous goods classes X, Y and Z.

ECO DRUM **L** the robust jack of all trades

L



ECO DRUM L is available for capacities of up to 150 litres and with an external height of up to 1130 mm. To meet these stringent standards, **ECO DRUM L** is manufactured from seven layers of Kraftliner. It comes with optional slot handles in the lid and/or container. Approved for powders and pastes in dangerous goods classes X, Y and Z.

ECO DRUM **HYBRID** the smart combination

HYBRID



ECO DRUM Hybrid features an innovative closure system. The drum is made of Kraftliner and is not crimped for a slip lid. The plastic lid, which has a tie bar lock, is pressed over the drum edges to form a gapless closure. The drum makes good consumer packaging and is suitable for all applications where hygiene is important (e.g. GMP).

The tie bar is simple and intuitive to use.



ECO DRUM **GREEN** the sustainable solution

GREEN



ECO DRUM Green is available in capacities from 30 to 120 litres and consists of 7 layers of Testliner. The self-locking lid requires no additional closure or adhesive tape. Optionally, an **ECO CLIP** can be used. Approved for dangerous goods classes X, Y and Z. (Packaging groups I, II and III) Design type approval No.: UN 073 4207354

100%
RECYCLED
FSC PAPER





THE OPTIONS

CLOSURE OPTIONS

1

Perforation for lead seal protection

Simple and safe method to provide tamper-proof protection.



2

Sealing machine

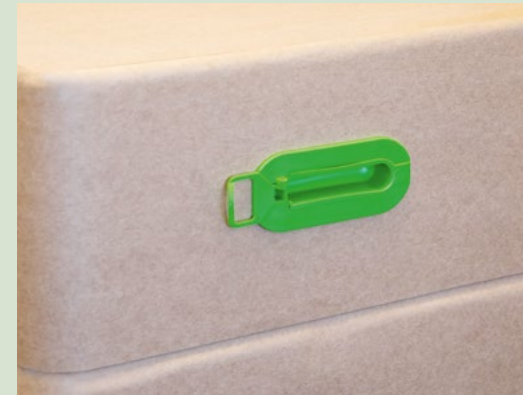
When using tapes, automatic or semi-automatic sealing machines can be used.



3

ECO CLIP

The new dangerous goods licensing approval for **ECO DRUMS** no longer requires the use of a costly adhesive closing mechanism. The innovative **ECO CLIP** offers a safe new closure option with many advantages.



LABELLING/INDIVIDUALISATION OPTIONS

1

Additional black imprint

It is possible to add a customised imprint with a height of 100 mm on one side.



2

Printed covering sheet

Das Deckblatt kann individuell
The covering sheet can be individually printed in colour.



3

Labels

On request, we can supply your ECO DRUMS with dangerous goods or product specification labels already attached. It is possible to apply 2 labels per drum in the process.



INTERNAL LINER OPTIONS

1

LDPE standard solutions

An individually tailored internal liner can provide maximum protection for bulk materials.



2

Customised solutions with barrier properties and bag-in-box for liquids

Together with our suppliers, we can also respond to customer-specific needs.



DO YOU HAVE ANY MORE QUESTIONS?
If so, then please get in touch with us.

DENSA AG

ECO DRUM – a product from **DENSA AG**

Sisslerstrasse 16, CH-5074 Eiken, Switzerland

Tel. +41 61 638 90 30

Fax +41 61 638 90 40

info@densa.ch

[ecodrum.ch](https://www.ecodrum.ch)



ISO 9001
ISO 14001
BUREAU VERITAS
Certification

