

safety@work

Your DENIOS safety update

Solutions for storing, charging and transporting
lithium energy storage devices

DENIOS
ENVIRONMENTAL PROTECTION
& WORK SAFETY

3 6.941

Li

Lithium

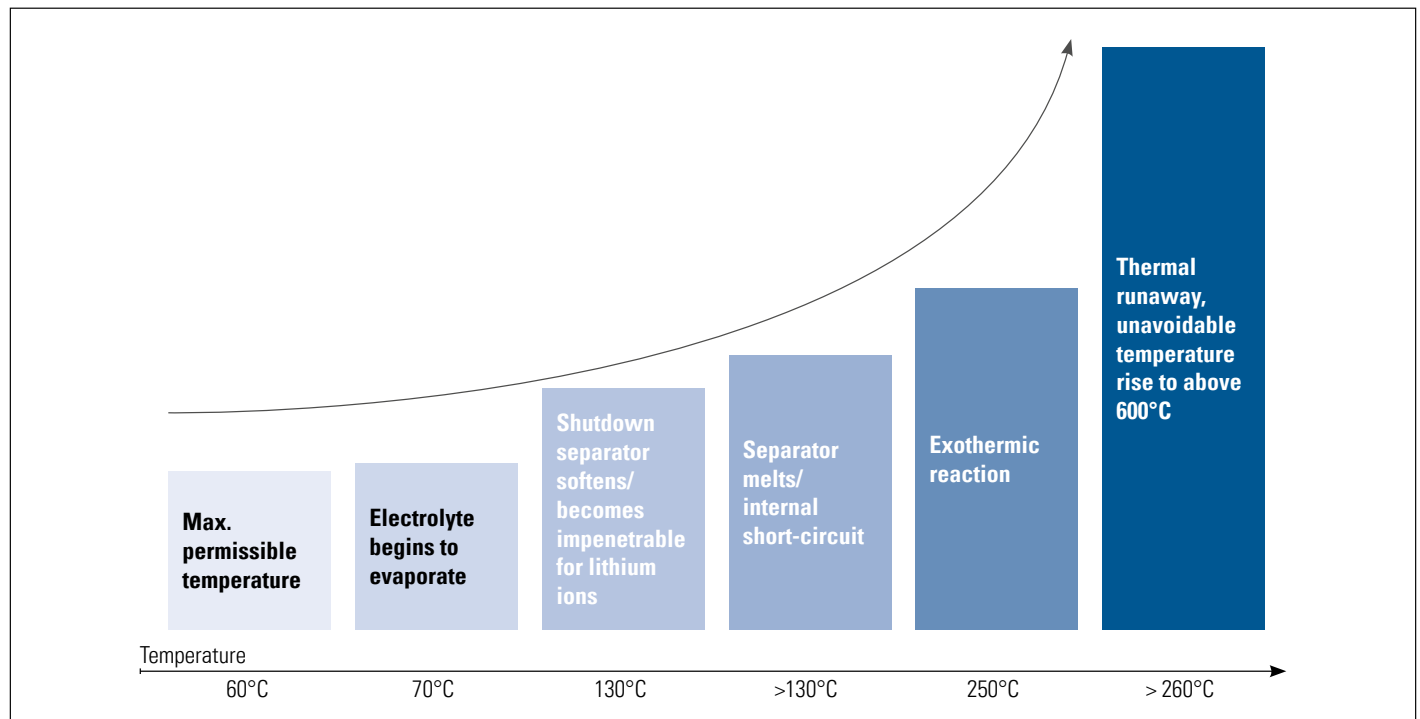


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THE DANGERS OF Thermal runaway

Hazards and risks when handling lithium energy storage devices

The situation becomes especially dangerous when a lithium battery releases its stored energy in an uncontrolled manner. As soon as the heat created exceeds the melting point of the lithium, an uncontrollable chain reaction is set off – the dreaded "thermal runaway". This results in an explosive burning of the battery. These lithium-ion battery fires are difficult to control and spread quickly. Often, all the fire brigade do in such situations is protect the neighbouring areas.



Example of how temperature changes in the event of an incident

In principle, lithium batteries must always be treated as a hazardous substance

During normal operation, the use of lithium batteries is considered safe. According to VDE, this is only the case as long as everyone handles them properly. As soon as there is a technical fault or a battery is damaged, the situation can quickly become critical. As a result, the German Insurance Association (GDV) calls for lithium batteries to be "treated as a hazardous substance in principle".

Electrical overload

- During charging and discharging

Exhaustive discharge

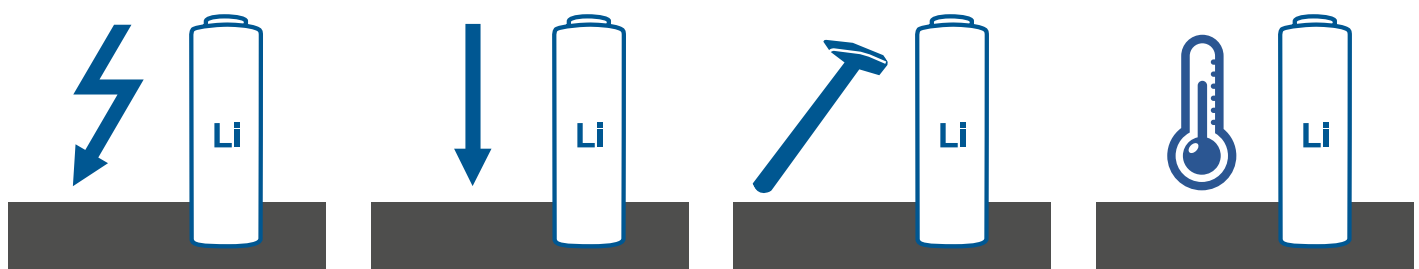
- Unstable cells

Mechanical damage

- In combination with the high energy density of the battery

Thermal overload

- Due to external heat or energy sources



THE SAFETY CONCEPT

SafeStore Pro and SmartStore

The 3-stage warning/fire suppression system

If there is a fire you need to act quickly! With their built-in, 3-stage warning/fire suppression system, the SmartStore and SafeStore Pro cabinets offer a high degree of safety when storing and charging lithium-ion batteries. If a fire ignites in one of the cabinets, the system will detect it immediately so that staff can be evacuated right away. Connecting the warning/fire suppression system to a permanently manned building control system or fire control centre also ensures that trained emergency response teams:

- Are alerted quickly and on site within a short time
- Can take further measures immediately, after an initial evaluation of the situation
- Can remove the cabinet from the building, if possible. This prevents further damage to buildings and injury to people.



The cabinets are equipped with a transport base for fast transportation. The cabinets are automatically disconnected from the power supply during transport. Once the cabinet is in a safe place outside the building, the emergency services can determine what further measures are necessary. With this in mind, we recommend installing the safety cabinets at ground level so they can be evacuated easily.

	EVENTS	SYSTEM REACTIONS	SUBSEQUENT MEASURES
WARNING	If the temperature inside exceeds 50°C, the warning/fire suppression system sends a warning notification to the central control centre. Possible reasons: ■ Temperature accumulation due to battery charging ■ Ventilation system failure	Visual and acoustic alarms ■ Warning light (red LED) activated and constantly illuminated; operating indicator (green LED) goes out ■ Slow-beep alarm triggered Potential-free switching contact ■ Alarm forwarded to building control system	The warning is not an indicator of immediate danger. The system can be inspected immediately by qualified in-house personnel, then any further measures that prove necessary can be taken. If the inside temperature drops below 50°C again, the system will return to normal operation. The visual and acoustic signals will be shut off.
ALARM STAGE 1	Alarm stage 1 is triggered when the smoke detector senses that smoke is beginning to develop in the cabinet. Possible reasons: ■ Smoke detection without simultaneous temperature rise	Visual and acoustic alarms ■ Warning light (red LED) activated and constantly illuminated; operating indicator (green LED) goes out ■ Medium-beep alarm triggered Potential-free switching contact ■ Alarm forwarded to building control system	The system can be inspected immediately by specialist personnel (e.g. the fire brigade), then any further measures that prove necessary can be taken. If the smoke detector does not detect any further smoke development inside the cabinet, the system can be put back into normal operation by briefly disconnecting it from the mains voltage.
ALARM STAGE 2	Alarm stage 2 is triggered if, once the smoke detector has already been activated (Alarm stage 1), the temperature sensor registers a temperature greater than 70°C inside the cabinet Possible reasons: ■ Fire	Visual and acoustic alarms ■ Warning light (red LED) changes from constantly illuminated to flashing ■ Fast-beep alarm sounds The SafeStore Pro model carries out the following responses at the same time: ■ The technical air extraction unit is switched off ■ The power strips are disconnected from the mains The fire suppression system ■ is triggered	If this happens, the entire system can then only be inspected by authorised asecos service technicians and, if possible, put back into normal operation. In such situations, the fire suppression unit and the smoke detector must be replaced as a bare minimum response.

SAFESTORE: PASSIVE STORAGE

Storing lithium-ion batteries safely

DENIOS
warranty

5
years

Type 90

90-minute fire protection

Tested in acc. with EN 14470-1

DIN EN 

Passive storage can be used to store new or used lithium-ion batteries can be stored for a set period of time. SafeStore hazardous substances cabinets offer a safe and attractive option for companies looking to take this approach: building on the tried-and-tested technology of our DENIOS hazardous substances cabinets, we have developed a sophisticated system to address the special potential risks associated with the storage of lithium-ion batteries. With fire protection from inside and out, they eliminate any chance of a dangerous thermal runaway developing.

SafeStore storage cabinet for lithium-ion batteries

- 90-minute fire protection from the outside in (Type 90) in accordance with EN 14470-1
- Over 90 minutes of fire resistance from from inside to out in case of fires developing inside the cabinet, in line with EN 1363-1
- With watertight floor spill sump (powder-coated steel plate) to contain any leaks from burning batteries
- Permanently self-closing doors with high-quality, oil-damped door closers
- Lockable doors with profile cylinders (closing-system-compatible) and lock indicator (red/green)
- With adjustable feet for use on uneven floor surfaces
- Extremely robust construction with scratch-proof coating
- Air extraction port (NW 75) in roof of the cabinet

Optional extras for your order

Inspection – SafeStore storage cabinet
for lithium-ion batteries

Order no.: 267-285-L1

Expert tips

Minimising risk and fires

Never store lithium-ion batteries with clear signs of damage inside buildings. Dispose of them immediately outside of the building, in special disposal containers designed for this purpose and approved for transport.

Store new and used batteries separately

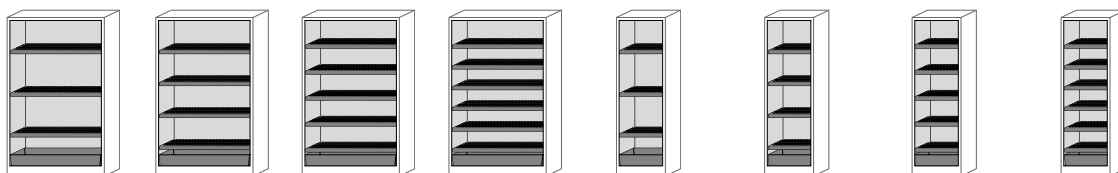
Store new batteries on a different storage level to used batteries.

90 minutes
of safety!



The shelves are height-adjustable on all cabinets without charging facilities. Body always in anthracite grey (RAL 7016), swing doors in gentian blue (RAL 5010).
Order no. 261-991-L1

DENIOS.
by *asecos*



Model	SafeStore-123-L	SafeStore-124-L	SafeStore-125-L	SafeStore-126-L	SafeStore-63-L	SafeStore-64-L	SafeStore-65-L	SafeStore-66-L
Equipment	3 shelves, floor spill sump	4 shelves, floor spill sump	5 shelves, floor spill sump	6 shelves, floor spill sump	3 shelves, floor spill sump	4 shelves, floor spill sump	5 shelves, floor spill sump	6 shelves, floor spill sump
External dimensions W x D x H [mm]	1193 x 615 x 1953	1193 x 615 x 1953	1193 x 615 x 1953	1193 x 615 x 1953	599 x 615 x 1953	599 x 615 x 1953	599 x 615 x 1953	599 x 615 x 1953
Internal dimensions W x D x H [mm]	1050 x 522 x 1647	1050 x 522 x 1647	1050 x 522 x 1647	1050 x 522 x 1647	450 x 522 x 1647	450 x 522 x 1647	450 x 522 x 1647	450 x 522 x 1647
Floor spill sump collection volume [l]	33	33	33	33	22	22	22	22
Weight [kg]	469	479	490	499	292	297	302	307
Order number	261-991-L1	261-992-L1	261-993-L1	261-994-L1	263-604-L1	263-605-L1	263-606-L1	263-607-L1

SAFESTORE: PASSIVE STORAGE

Storing lithium-ion batteries safely

Warning/fire suppression system



Sophisticated, 3-stage warning/fire suppression system inside the cabinet triggers automatically in the event of a fire.

Type 90 90-minute fire protection
Tested in acc. with EN 14470-1

DIN EN

DENIOS
warranty **5**
years

SafeStore-Pro storage cabinet for lithium-ion batteries, with warning/fire suppression system

- Sophisticated, 3-stage warning system inside the cabinet automatically triggers an alarm in the event of a fire
- 90-minute fire protection from the outside in (Type 90) in accordance with EN 14470-1
- Over 90 minutes of fire resistance for from inside to out in case of fires developing inside the cabinet, in line with EN 1363-1
- With watertight floor spill sump (powder-coated steel plate) to contain any leaks from burning batteries
- Permanently self-closing doors with high-quality, oil-damped door closers

Optional extras for your order

Inspection – SafeStore Pro storage cabinet for lithium-ion batteries

Order no.: 267-286-L1

Expert tips

Before deciding on a cabinet model, you should conduct a risk assessment based on regulations such as Sections 5 and 6 of the German Occupational Safety and Health Act (Arbeitsschutzgesetz) and Ordinance on Workplaces (Arbeitsstättenverordnung). In addition to this, please refer to the current publications on loss prevention issued by the German Insurance Association (GDV e.V.).

SafeStore Pro and SmartStore cabinets are delivered free to the place of use as part of our safety concept. We strongly recommend placing the cabinets at ground floor level so that they can be evacuated quickly in the event of an incident. In addition to this, we recommend setting up a maintenance agreement for all cabinets fitted with a fire suppression system.

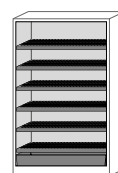
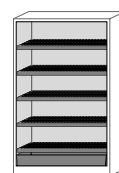
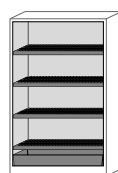
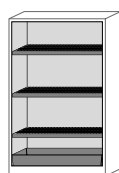
90 minutes of safety!

INCLUDES FIRE SUPPRESSION SYSTEM



SafeStore-Pro storage cabinet for lithium-ion batteries, with warning/fire suppression system. Order no. 263-603-L1

DENIOS.
by **asecos**



Model	SafeStore Pro-123-LP	SafeStore Pro-124-LP	SafeStore Pro-125-LP	SafeStore Pro-126-LP
Equipment	3 shelves, floor spill sump	4 shelves, floor spill sump	5 shelves, floor spill sump	6 shelves, floor spill sump
External dimensions W x D x H [mm]	1193 x 615 x 1953	1193 x 615 x 1953	1193 x 615 x 1953	1193 x 615 x 1953
Internal dimensions W x D x H [mm]	1050 x 522 x 1647	1050 x 522 x 1647	1050 x 522 x 1647	1050 x 522 x 1647
Floor spill sump collection volume [l]	33	33	33	33
Weight [kg]	474	484	494	505
Order number	263-600-L1	263-601-L1	263-602-L1	263-603-L1

SMARTSTORE: ACTIVE STORAGE

Charging lithium-ion batteries safely

DENIOS
warranty

5
years

Type 90

90-minute fire protection

Tested in acc. with EN 14470-1

DIN EN 

During active storage, lithium-ion batteries in the cabinet are either charged using a charger or partially discharged (60-70%).

The charging process for this type of battery generates heat. If this heat reaches excessive levels, it can cause fire. This can occur if the charger or a connection cable are defective. An additional, high-risk factor when working with lithium-ion batteries is thermal runaway, which can be caused by factors such as internal short circuits. SmartStore storage cabinets allow you to charge your lithium-ion batteries safely, and are optimised to cater to the demands of active charging.

SmartStore storage cabinet for lithium-ion batteries, incl. warning/fire suppression system

- Each storage level is equipped with a high-quality power strip incl. metal housing and 10 earthed sockets. The power strips are fitted to the rear wall of the cabinet prior to delivery, and can be connected to the mains immediately.
- Sophisticated, 3-stage warning system inside the cabinet automatically triggers an alarm in the event of a fire
- Incl. technical air extraction unit (prevents build-up of heat inside the cabinet)
- Total output for SmartStore power strips:
Max. total output = 3.68 kW - as standard, 230 V, 1-phase, 16 A fuse
Max. total output = 11.04 kW - optional, 400 V, 3-phase, 3 x 16 A fuses



SmartStore-124-L, 4 shelves, floor spill sump,
Order no. 261-996-L1

Optional extras for your order

Inspection – SafeStore Pro storage cabinet for lithium-ion batteries

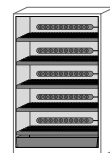
Order no.: 267-287-L1

Expert tip

Minimising risk and fires

Never store lithium-ion batteries with clear signs of damage inside buildings. Dispose of them immediately outside of the building, in special disposal containers designed for this purpose and approved for transport.

DENIOS.
by *asecos*



Model	SmartStore -123-L	SmartStore -124-L	SmartStore -125-L	SmartStore -126-L
Equipment*	3 shelves, floor spill sump	4 shelves, floor spill sump	5 shelves, floor spill sump	6 shelves, floor spill sump
External dimensions W x D x H [mm]**	1193 x 615 x 2224	1193 x 615 x 2224	1193 x 615 x 2224	1193 x 615 x 2224
Internal dimensions W x D x H [mm]	1050 x 522 x 1647	1050 x 522 x 1647	1050 x 522 x 1647	1050 x 522 x 1647
Floor spill sump collection volume [l]	33	33	33	33
Weight [kg]	490	502	514	526
Order number	261-995-L1	261-996-L1	261-997-L1	261-998-L1

*The positions of the shelves and power strips are fixed and cannot be altered.

**Height incl. ventilation unit

SMARTSTORE: ACTIVE STORAGE

Charging lithium-ion batteries safely



SmartStore-126-L, 6 shelves, floor spill sump,
Order no. 261-998-L1



Built-in technical air extraction unit



Warning/fire suppression system



Operation indicator (green LED) and
warning light (red LED)



Power strip with metal housing and
earthed sockets



Smoke detector and temperature sensor



Perforated shelves and steel floor spill
sump prevent the loss of any leaked
liquids

SmartStore Compact – The space-saving version

- Incl. 2 power strips with 10 sockets each and smoke detector with alarm contact
- Total output for SmartStore Compact power strips:
Max. total output = 3.68 kW - as standard, 230 V, 1-phase, 16 A fuse
Max. total output = 7.36 kW - optional, 400 V, 3-phase, 3 x 16 A fuses

DENIOS
by asecos

Model	SmartStore Compact
Equipment	4 shelves, floor spill sump
External dimensions W x D x H [mm]	599 x 615 x 1953
Internal dimensions W x D x H [mm]	450 x 522 x 1647
Floor spill sump collection volume [l]	22
Weight [kg]	299
Order number	271-906-L1



TRANSPORT CONTAINERS

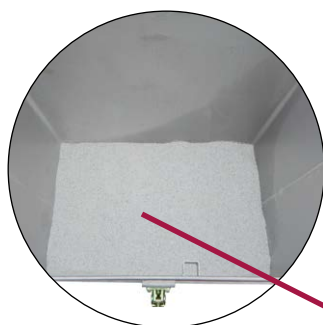
for lithium-ion batteries

UN-compliant system in stainless steel for transporting defective or unsafe lithium-ion batteries

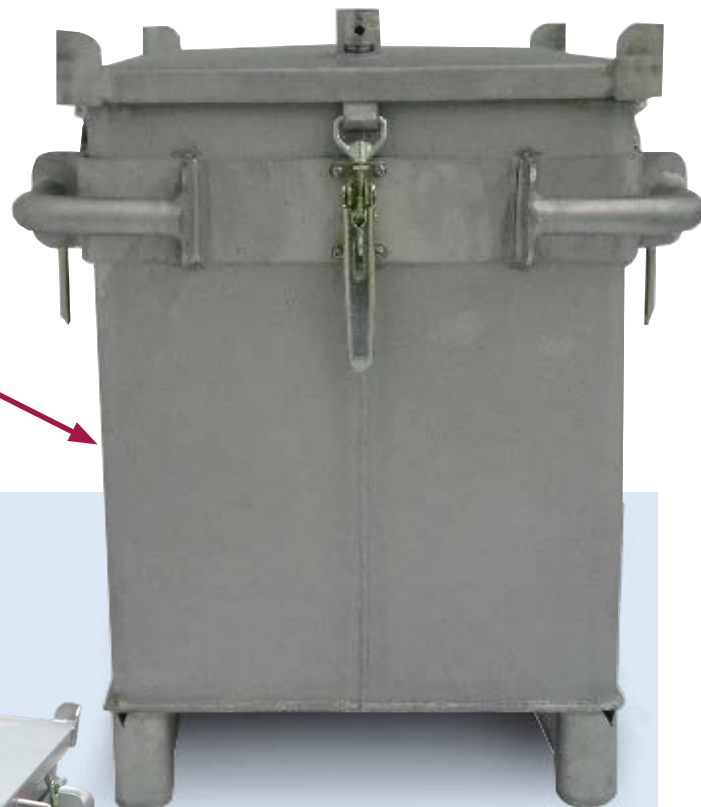
Safety system for storage and transport in accordance with Special Provision 376 ADR for damaged, faulty (Packaging Instructions P 908 and LP 904) and unsafe lithium-ion batteries (Packaging Instructions P 911 and LP 906)



PyroBubbles
inside!



Even during and after thermal runaway of the battery/batteries, the temperature of the external walls remains well under 100°C.



Forklift pockets, pressure valves and tension locks ensure both practical handling and safety.



PROFESSIONAL EQUIPMENT

Model	S-Box X1	S-Box X2	M-Box X1	M-Box X2	XXL Box
Equipment	4 paper bags of PyroBubbles®	6 paper bags of PyroBubbles®	10 paper bags of PyroBubbles®	16 paper bags of PyroBubbles®	50 paper bags of PyroBubbles®
External dimensions W x D x H [mm]	799 x 599 x 734	799 x 599 x 1114	1199 x 799 x 792	1199 x 799 x 1252	2500 x 1484 x 1029
Internal dimensions W x D x H [mm]	676 x 476 x 580	676 x 476 x 960	1076 x 676 x 640	1076 x 676 x 1100	2376 x 1356 x 808
Maximum hazardous goods load [kg]	66	110	155	360	400
Maximum gross weight [kg]	160	240	350	630	1212
Volume [l]	187	309	466	800	2603
Order number	261-759-L1	261-760-L1	261-761-L1	261-762-L1	261-763-L1

TRANSPORT CONTAINERS

for lithium-ion batteries

Transport container filled with PyroBubbles® in 700 ml PE bags

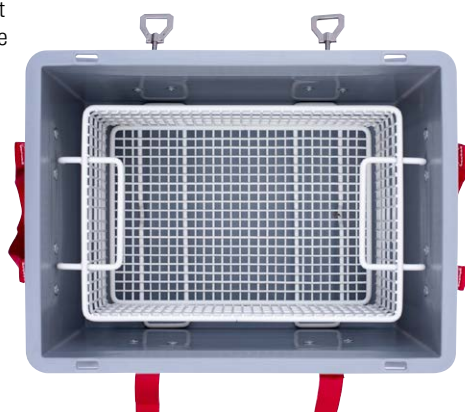
- Suitable for e-bike batteries, power tools, laptops and mobile batteries, electric car batteries, electric vehicle batteries, etc.
- Safe protection against thermal runaway and exothermic reactions, thus preventing damage to the environment
- All containers supplied with sufficient quantities of PyroBubbles® filler for operation



Model	XS-Box 1 Basic	XS-Box 2 Basic	S-Box 1 Basic	S-Box 2 Basic
Equipment	24 PE cushions filled with PyroBubbles®	30 PE cushions filled with PyroBubbles®	62 PE cushions filled with PyroBubbles®	100 PE cushions filled with PyroBubbles®
External dimensions W x D x H [mm]	400 x 300 x 235	400 x 300 x 285	600 x 400 x 295	600 x 400 x 441
Internal dimensions W x D x H [mm]	360 x 260 x 195	360 x 260 x 245	556 x 356 x 276	556 x 356 x 422
Maximum hazardous goods load [kg]	9	8	33	28
Maximum gross weight [kg]	13	13	45	45
Volume [l]	18	23	56	84
Order number	261-764-L1	261-766-L1	261-768-L1	261-770-L1

Transport container with metal basket, PyroBubbles® in separate paper bag

- The made-to-measure, powder-coated metal basket keeps the batteries 3 cm from the inside edge of the transport box at all times. The batteries can be removed easily using the basket.



Model	XS-Box 1 Advanced	XS-Box 2 Advanced	S-Box 1 Advanced, 12.5 kg	S-Box 2 Advanced
Equipment	Metal basket, 1 paper bag of PyroBubbles®	Metal basket, 1 paper bag of PyroBubbles®	Metal basket, 1 paper bag of PyroBubbles®	Metal basket, 2 paper bags of PyroBubbles®
External dimensions W x D x H [mm]	400 x 300 x 235	400 x 300 x 285	600 x 400 x 295	600 x 400 x 441
Internal dimensions W x D x H [mm]	298 x 198 x 135	297 x 195 x 190	492 x 292 x 196	492 x 292 x 341
Maximum hazardous goods load [kg]	7	6	30	24
Maximum gross weight [kg]	13	13	45	45
Volume [l]	8	11	28	49
Order number	261-765-L1	261-767-L1	261-769-L1	261-771-L1

TRANSPORT CONTAINERS/BOXES for lithium-ion batteries

Transportbox Safe K470 for lithium-ion batteries

- High-quality special container in aluminium, high stability, with three fully welded aluminium profile frames
- With fireproof padding and absorbent material in textured glass fibres
- Dust-free internal fittings
- For the safe storage and transport of defective or damaged lithium batteries in accordance with ADR SV 376, P 908



Order no. 272-301-L1

Transport box S1 for lithium-ion batteries in plastic, in accordance with SV 310 or SV 376

- Developed in accordance with the latest hazardous goods regulations (ADR 2021, P 911) issued by the German Federal Institute for Materials Research (BAM). Also approved for the transport of critical lithium-ion batteries in the process definition
- X-coded packaging (also suitable for use in accordance with SV310 or SV 376 ADR 2021)
- For storage and transport of defective/damaged lithium-ion batteries. Functionality verified using real fire tests



Order no. 275-798-L1

Model	90
External dimensions W x D x H [mm]	600 x 400 x 340
Internal dimensions W x D x H [mm]	480 x 280 x 340
Maximum hazardous goods load [kg]	20
Maximum gross weight [kg]	30
Order number	275-798-L1

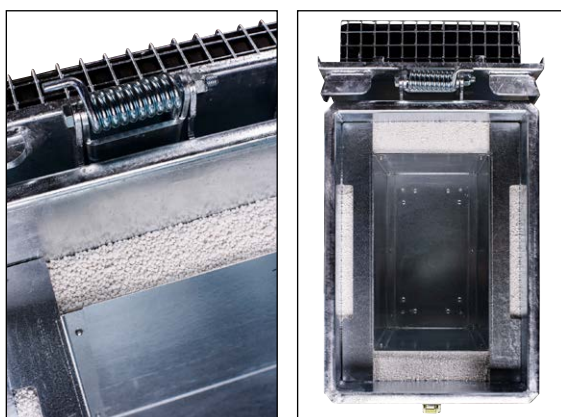


STORAGE CONTAINERS

for lithium-ion batteries

Two-layer transport container, filled with PyroBubbles®

- The two-layer, galvanised metal walls are filled with PyroBubbles® and provide a safe storage space for your batteries, safely maintaining the required clearance between battery and outside at all times
- The outer walls do not overheat if the stored batteries go into thermal runaway, so the container's immediate surroundings remain safe and protected
- Simple and safe storage solution for lithium-ion batteries
- Also available as quarantine container for defective and damaged lithium-ion batteries



Order no. 272-948-L1

Expert tip

Powerful lithium-ion batteries are the driving force behind modern electric mobility. However, lithium batteries are also classed as a hazardous material, and are thus subject to dangerous goods regulations. In ADR and RID, they are classed as Class 9 dangerous goods (Miscellaneous dangerous substances and articles) and assigned the following UN numbers:

UIN 3090: Lithium metal batteries (including lithium alloy batteries)

UN3480: Lithium ion batteries (including lithium ion polymer batteries)

(UN approvals for batteries in equipment are not listed here).

Model	90	220	280	520
External dimensions W x D x H [mm]	805 x 605 x 800	1216 x 805 x 800	1216 x 1006 x 800	1682 x 1479 x 902
Internal dimensions W x D x H [mm]	563 x 413 x 395	1012 x 563 x 395	1013 x 743 x 373	1247 x 1047 x 400
Load [kg]	200	400	400	400
Maximum gross weight [kg]	331	617	651	968
Volume [l]	91.8	225.3	280.7	521
Order number	272-946-L1	272-947-L1	272-948-L1	272-949-L1

BESTSELLERS - recommended by our users



asecos SmartStore charging cabinet for lithium-ion batteries, with 7 metal lockers, width: 600 mm, Order no. 277-480-L1

BEST-SELLER



asecos SmartStore charging cabinet for lithium-ion batteries, 5 shelves, Order no. 261-997-L1

**We create custom environments
for your battery tests.**
Get in touch with us today!



Test bench container for lithium-ion batteries, galvanised steel, volume 4900 l



Large transport container with metal basket, PyroBubbles® in separate paper bags, Order no. 261-772-L1



PyroBubbles® Premium extinguishing medium, Big Bag 250 kg, Order no. 265-742-L1

ACCESSORIES - include them in your order today!



Telecommunication module for lithium-ion battery storage cabinets, for alarm notification to up to 5 freely programmable recipients via mobile phone network. Can be retrofitted to existing cabinets. Order no. 277-406-L1



asecos relay module for alarm differentiation, potential-free relay of 4 different alarm statuses, can be retrofitted to existing cabinets (SafeStore Pro und SmartStore). Order no. 275-800-L1



Mains connection cable, CEE-plug, 400 V, 3 x 16 A fuses, Order no. 267-275-L1

ESSENTIAL



DENSORB® universal absorbent material, fleece cloths, Economy Triple, light, 3-layer, 40 x 50 cm, 100 units, Order no. 248-913-L1



Roll stand for rolls up to 80 cm wide as a stand unit, Order no. 136-487-L1

BESTSELLER



UNIVERSAL coarse granules, Order no. 208-180-L1



FALCON plunger can in steel, painted, 1 litre, Order no. 187-531-L1



FALCON safety can in stainless steel, 1 litre, Order no. 204-058-L1



FALCON fine dosing tap in stainless steel, Order no. 256-581-L1

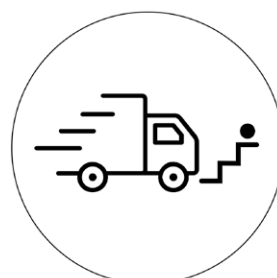


FALCON steel funnel, for FALCON safety containers, Order no. (galvanised) 187-536-L1
Order no. (stainless steel), 187-534-L1

FOR PROTECTION



Barriers, diam. 400 mm, to protect against leaking liquids, Order no. 130-516-L1



Delivery free to place of use, Order no. 267-392-L1

YOUR CUSTOMER BENEFITS

at a glance

SmartStore – For safe storage and charging of lithium-ion batteries

As well as offering fire-resistant, passive fire protection from the outside and inside, the **SafeStore Pro** and **SmartStore** models also come with a high-quality, 3-stage warning/fire suppression system inside the cabinet. And what's more, certain SmartStore cabinets are equipped with up to 60 sockets so you can charge your lithium-ion batteries safely in a controlled environment.

1 Electronic control system incl. potential-free alarm contact to your building control system

2 Fire suppression system

3 Operation indicator (green LED)

4 2-stage warning light (red LED)

5 2-stage acoustic alarm signal

6 Smoke alarm

7 Temperature sensor

8 Ready to connect to the mains power supply

9 High-quality power strip with metal housing and 10* earthed sockets for each storage/charging level, fitted ready for use inside the cabinet

10 All electrical cables for power strips routed via cable ducts to a central terminal box in the top of the cabinet

11 Technical air extraction unit (prevents build-up of heat inside the cabinet)

*Number of sockets may differ depending on country



asescos SmartStore charging cabinet for lithium-ion batteries

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Online shop & e-procurement

www.denios.co.uk/shop

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No shipping costs
on >12,000 items



Individual advice
from our hazardous
substances experts



**30-day right
to return**
as per T&Cs



**Maintenance and
spare parts service**
direct from the
manufacturer

Call us to request free info material:



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**You can find guides, practical knowledge
and much more here:**

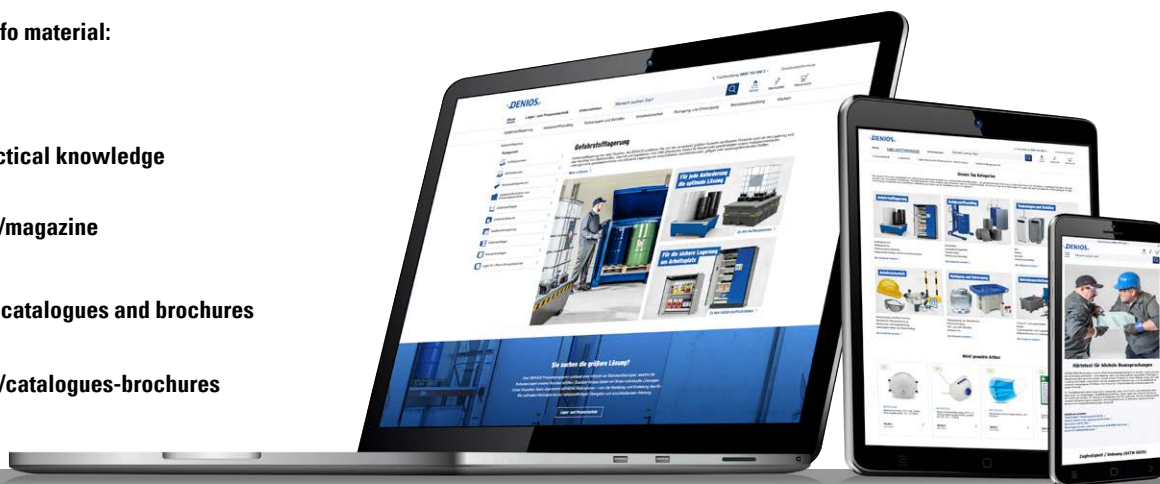


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www.denios.co.uk/e-procurement

With 15 years of experience in online business, DENIOS AG is the professional partner for big clients. To put it another way: at DENIOS, e-procurement is a way of life – in 14 languages, with more than 200 active electronic catalogues, and over 14,000 items. As both a developer and a manufacturer, we offer the biggest product range in the field of business equipment and work safety.

You too can benefit from this automated digital service. E-procurement simplifies the entire handling process, from ordering to delivery. A digital, customised catalogue is imported into your ERP system. This saves you time and money, and allows you to benefit from fixed conditions, budget control and maximum transparency. And the reduced paper output helps to protect the environment, too. The digital service simplifies handling from ordering to delivery, and reduces admin and process costs.

Purchasing advantages:

- Exclusive conditions
- Framework agreements
- Budget and product control
- Maximum transparency

A selection of our e-procurement partners:

SAP Ariba

NEWTRON

mep|ato

onventis
CLOUD PROCUREMENT NETWORK

HUEWOO
A PROACTIS COMPANY

WPS4

proactis

poet

veenion
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SpillGuard® hazardous substance leak warning system

The first warning system of its kind: fully autonomous, operated at the push of a button and suitable for fitting to any spill sump, at any time. SpillGuard® reliably detects hazardous leaks and thus saves you valuable time in rectifying the situation, preventing unnecessary danger and expense.

- ✓ **Easy to commission:** put into position, switch on, stay safe!
- ✓ Developed for **years of reliable use** – certified for **ATEX Zone 0**
- ✓ **Acoustic signal** warns you when your SpillGuard® is reaching the end of its service life (up to five years) and needs replacing
- ✓ Issues an **acoustic and visual alarm** for a minimum of 24 hours when contact is made with a liquid hazardous substance
- ✓ **Red LED lights up regularly** throughout the unit's entire service life to indicate that it is functioning reliably
- ✓ The **intelligent, sturdy sensor technology** in its highly resistant, electrically conductive housing guarantees simple and reliable commissioning and use

Order no. 271-433-L1



Designed for use with all essential and common liquid hazardous substances; see resistance list at www.denios.co.uk/spillguard. For media not included in the list, an individual laboratory test can be carried out to verify the suitability of SpillGuard® for reliably detecting the hazardous substance in question.



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