

DDR Lithium Ion Battery Packing Instructions

This informational guide is meant to be used as best-practice.

Follow all Business, Local, State, and Federal regulations for your safety and compliance.

Federal Reference
Sources:
49 CFR 173
40 CFR 273

DDR Kit Components

(Photos may differ from product)



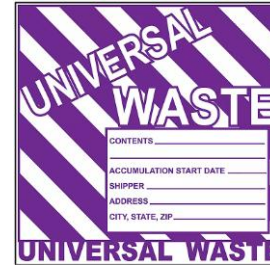
1 quantity

55-gallon
steel PGI
drum



1 quantity

Drum liner
(pre-installed)



Damaged/defective lithium ion battery

DOT-SP 16532

1 quantity

Sticker Set
(pre-installed)



2 bags

Class D solid
fire
extinguishant



1 quantity

Zip Tie

Personal Protective Equipment (Recommended for your safety)



- Cut-resistant gloves (a), or
- Electrical hazard gloves (b), or
- Fire-rated gloves (c).

(Base on your own assessment)



- Face shield or safety glasses.

(Base on your own assessment)



- Cotton clothing.

(Base on your own assessment)

How to Use

This kit is ONLY intended for Damaged Lithium Ion Batteries.

Please do not mix other battery chemistries into this kit.

Preparation

1. Don appropriate PPE.
2. Carefully remove black stretch wrap.
3. Do not remove any labeling on outside of drum.
4. Remove zip tie and 2 bags of Class D pelletized solid extinguishant. Store appropriately.

Application

1. Don appropriate PPE.
2. Open one side of the Class D bag labeled “spout”. Pour approximately 1/3 of bag into lined drum.
 - a. Use caution as material is very light-weight and may spill.
3. With the terminals protected, and EACH cell/module/pack individually contained, carefully load the DDR battery(ies) into the drum. *****USE CAUTION AS TO NOT RIP THE LINER*****
4. Try to centralize the DDR material. Pour remaining Class D pellets into the container; filling the sides and enveloping the entire unit.
5. Bunch up the top of drum liner and install zip tie for secure enclosure ensuring drum lid can seat properly.
6. Attach lid and close by referencing the supplied closure instructions.
7. **This is a Federal EPA requirement:** Fill out the Universal Waste sticker with appropriate information. Use the date of first battery input into the container as the “Start Accumulation Date”. For the Contents, write “used lithium batteries”. **You have 365 days to remove this container from the Start Accumulation Date.**
8. Palletize the drum and secure to the pallet using banding, stretch wrap, or like materials for secure transport.
9. Doff PPE.

PACKAGING

“DDR” LITHIUM-BASED

DDR batteries are defined as Lithium-Based Chemistry that has been Damaged, Defective, or Recalled. Defective and recalled status are usually assigned by the OEM with a published notification. Damaged status is usually assessed from individual inspection.

Packaging

- Metal PGI, UN-rated “X” drum with liner
 - Must be secured to pallet with metal or non-metal binding
 - Shall not exceed 400 pounds per drum

[eCFR :: 49 CFR 173.185 -- Lithium cells and batteries.](#)

PACKAGING

DDR LITHIUM-ION DRUM

Package preparation

1. (4) PGI "X" drums on pallet
2. Affix identification label to each drum
3. Install drum liner

After container is filled

1. Tuck and fold liner inside drum
2. Install lid with ring
3. Tighten ring bolt
4. Torque tighten bolt to spec
5. Remove small bung
6. Add vertical banding and apply stretch wrap
7. Apply labels to pallet (outside of wrap)



DOT LABELING REQUIRED

PALLETS MUST BE LABELED ON ALL SIDES

- Class 9 label with appropriate UN# (4 sides)
- DDR Special Permit clarification label (on container) 12mm lettering

eCFR :: 49 CFR 173.185 -- Lithium cells and batteries.

Contact your Sales Rep at Vesco Clean Energy for any questions, concerns, or completion of container.

Call: (800) 527-5358

Email: batteryhelp@vescocleanenergy.com



VESCO CLEAN ENERGY