

Instructions for Packaging Flooded Cell (Wet Cell) Batteries on Pallets

Correctly Packaged Flooded Cell Batteries



- Multiple layers of cardboard on top
- Proper labeling
- Banded together with high-strength banding
- Banded to pallet
- Cardboard below
- Wood slats added to keep from moving on pallet
- Shrink wrapped to pallet – **many layers of shrink wrap** to avoid shifting during shipment



It is not possible to have too much shrink wrap or banding to secure the material to the pallets.
A general rule would be once you think you have it wrapped – add six more revolutions of wrap.

Incorrectly Packaged Flooded Cell Batteries



- Insufficient cardboard on top
- Exposed terminals + Ripped cardboard + Steel Banding = FIRE HAZARD
- At least 3 layers of cardboard should have been used
- OR
- use a non-conductive material, such as plywood



- NOT shrink wrapped to pallet -to avoid shifting during shipment
- Not labeled properly
- Insufficient banding
- Missing bottom cardboard
- Not protected from sliding off pallet (no wooden slats)
- Insufficient amount of shrink wrap



- Not protected from sliding off pallet (no wooden slats)
- Not banded to the pallet
- Insufficient Cardboard on top
- Missing Cardboard under batteries
- Not Labeled
- Insufficient amount of shrink wrap

Wet Cell Battery Packaging and Shipping Instructions

These instructions must be followed exactly!

Planning

Under the Universal Waste Law, you must contact Battery Solutions before sending a shipment of Universal Waste Batteries to us so we can assign a recycling authorization tracking number to the shipment.

We will provide you with the address of the nearest Battery Solutions recycling center for your shipment and arrange transportation and handling, as required.

When calling please let us know:

- If you do or do not have a loading dock or lift truck to load the batteries for shipment.
- If you do not have an asphalt or concrete loading area, please inform us before you package the batteries.

Packaging and Labeling

- All batteries must be packaged on a pallet in individual boxes or with cardboard separating the layers of batteries and protecting all the terminals.
- Do not use Styrofoam packaging material, i.e. peanuts, foam padding, flow-foam products, etc. in the battery boxes or in the pallets. Using these materials will incur a surcharge. All types of cardboard and shrink wrap materials are acceptable.
- Any vents or spark arresters must be capped or plugged to prevent leaking during shipment.
- Only use heavy-duty pallets with 2x4 supports. When packaging the batteries on the pallet, if the batteries are not in boxes, place one layer of batteries upright, then place an ample layer of cardboard on top of that layer before you put another layer of batteries on the pallet. Place more cardboard over the top layer to insure that foreign materials cannot cause a short across the batteries.
- When packaging batteries over 16" tall, only put one layer high on each pallet. The height of the stacked batteries cannot exceed the width of the pallet.

- All batteries should be carefully banded to a strong wooden pallet with 5/8 inch heavy duty vinyl banding ensuring the banding does NOT come in contact with battery terminals. The top surface of the pallet itself should have 2x2 wooden strips nailed to the pallet surrounding the base of the batteries to prevent the batteries or drums from sliding off the pallet during transit. If banding is unavailable, use shrink wrap in heavy layers to the pallet ensuring the shrink wrap is all the way down around the pallet itself. Use enough shrink wrap to keep the batteries from shifting during transportation.
- When shipping wet cell batteries with acid or alkali electrolyte, use a corrosive Class 8 placard on opposite sides of each pallet. We can supply you with these labels.
- If you have damaged or leaking batteries contact Battery Solutions at 800-852-8127 for instruction.

Shipping

- Have the driver of the trucking company sign the bill of lading that was provided to you. Keep a signed copy for your records.

Contact Information

To plan a shipment or for any questions call our logistics department at 800-852-8127.



The party shipping or transporting batteries (the "Shipper") to Battery Solutions, LLC ("BSL") must properly secure the batteries to pallets prior to loading them onto a truck. Packaging and Labeling must be in compliance with the U.S. Department of Transportation – Code of Federal Regulations (CFR).

Attention Battery Solutions, LLC Customers - Notice to Comply:
As the shipper of record you must fully comply with all U.S. Department of Transportation regulations.