

Lithium Drill Rod Battery

Packaging & Shipping Instructions

Lithium drill rods are a particularly volatile type format of lithium-based batteries. Their unique shape require a longer shipping container, ideally a crate.

Correctly Packaged Lithium Drill Rod Batteries

Prepare Shipment



Contact Battery Solutions for recycling authorization tracking number. Begin to build shipment in shipping crate.

Package Pallet



Protect terminals of each battery. Pack with cushioning material in shipping crate.

Label & Ship



Attach appropriate labels to outermost layer of shrink wrap.

- **No lithium batteries that are bloated or damaged**
- Drill rod is fully encased in a poly-sleeve
- Terminal ends of drill rod are protected with electrical tape or end caps
- Crate is lined with vermiculite
- Cushioning material is properly distributed
- Proper heat-treated stamp on crate
- Correct placards applied to crate

Lithium drill rod batteries fall under the transportation guidelines for lithium-ion and are handled in a similar way. Keep in mind that these batteries should still be identified to Battery Solutions as lithium drill rods and not lithium-ion, despite the shipping placards and additional labels.

Incorrectly Packaged Lithium Drill Rod Batteries

- Improperly protected terminals
- Mixed battery chemistries without special permit
- Insufficient cushioning material
- Crate not closed
- No labeling

These instructions must be followed exactly.

These instructions are for packaging and shipping lithium drill rod batteries only. Lithium Batteries, unless shipping under a Department of Transportation (DOT) special permit, may not be co-mingled with other battery types. If you are unsure of the type of batteries that you have, please contact Battery Solutions for assistance.

Getting Started

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

When calling please inform us:

- Of your specific pick-up hours.
- 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.

If batteries are damaged or leaking, or if you are unsure if batteries are damaged, please call the Battery Solutions logistics department for instructions.

Collection

Collection containers should be labeled while they are stored. The start accumulation date needs to be filled in with the date batteries are first placed in the container.

While accumulating batteries, keep in mind that an ISPM15 compliant crate will be heavy, when full.

Crate Limitations

- Drill rods must then be packaged in certified, heat treated shipping crates. Weigh each crate prior to filling to be sure you have an accurate tare weight. ISPM15 compliant crates must be used. Call Battery Solutions, if unsure of the crate requirements.
- Crate size must encase the drill rods.
- Crate weight should not exceed 2800 lbs.

Packaging Crate to Ship

- The U.S. DOT requires completely protecting the metal terminals on all lithium-based batteries before placing them in the shipping container. All terminal ends must be protected with electrical tape or end caps.
- Drill rods must be individually placed in a protective tube or poly sleeve.
- Vermiculite must be placed in the bottom of the crate before stating to fill, at the ends of the drill rods, between each layer of drill rods and as a final layer before the top is placed on the crate.

Labeling

- Each crate must be individually labeled with a label that clearly states the Proper DOT Shipping name (at least 12mm in height) and UN # (3480 or 3481), and also a Class 9 label with pictogram- the label must be a background of contrasting color and be at least 6mm in height. We can supply these labels, if needed.
- Each crate must have the "ship to" address provided by Battery Solutions clearly on it, as well as an emergency phone number.
- You must label the overpack with the following labels: "Overpack", "This Side Up", "Lithium Metal and/or Lithium Ion Batteries", Class 9 label. Battery Solutions can supply these to you, if needed.

Shipping

- The offeror must have the proper training as required by the DOT (Contact Battery Solutions for assistance)
- Paperwork should reflect Hazmat placarding

The party shipping or transporting batteries (the "Shipper") to Battery Solutions, LLC. ("BSL") must properly secure the batteries to pallets prior to loading onto the 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.**