Damaged, Defective, or Recalled (DDR) Lithium-ion Recycling Guidelines: DDR 400 Kit

Per USDOT Special Permit, operator must receive hazardous material training prior to packaging

Suggested PPE for handling DDR batteries: safety glasses and gloves

**Kit Contents**

- Pre-Labelled Steel Drum
- Plastic Drum Liner* (installed)
- Steel Lid
- Locking Ring
- CellblockEx x2
- Zip Tie
- Antistatic Bags x100
- Packaging Instructions

**Step 1**

Remove CellblockEx bags from the drum. Leave the plastic drum liner inside the drum.

**Step 2**

Build the DDR kit on a pallet. Open bag of CellblockEx and pour 1/2 inch or deeper bed in the bottom of the drum.

**Step 3**

Place single DDR battery or device into anti-static bag. Seal bag.

**Step 4**

Place bagged DDR item into the drum. Ensure CellblockEx surrounds bagged item on all sides.

**Step 5**

Repeat DDR bag process for remaining items. Create layer, ensuring DDR items are not touching and minimum 1/2 inch CellblockEx material borders units in layer.

**Step 6**

Cover bagged DDR units with 1/2 inch or greater layer of CellblockEx. Repeat steps 4-6 until drum is full. Top with 1/2 inch or deeper layer CellblockEx before covering with lid.

**Step 7**

Seal drum. See other side for locking instructions. Call 800.852.8127 or email customer service for an RA# and pickup. These drums must be on their own pallet and order.

**Step 8**

Band drum(s) to pallet. Wrap drum(s) in shrink wrap to further secure to pallet, creating shipping overpack.

**Notes:**

The performance certification of this package requires that it be filled, assembled, and used in full accordance with the instructions herein. The use of substitute components or packing methods, or failure to follow the supplied instructions may result in a package that is not compliant with this certification. Instructions valid until revoked or superseded.

The special permit for transporting damaged, defective, or recalled lithium batteries is special permit number 20584. The copy of the special permit affixed to the drum exterior should not be removed or opened. A copy of the special permit is maintained at BatterySolutions.com

*Second drum liner included in case of rips

For questions or comments, contact Battery Solutions at 800.852.8127 or customerservice@batterysolutions.com
CLOSURE INSTRUCTIONS

Pursuant to the requirements of the Department of Transportation in CFR 49 Part 178.2(c)(1), this method of closure should be used to ensure that your containers have been closed in the same manner as when they were initially tested.

RING CLOSURE INSTRUCTIONS

1. Place cover on the drum, making sure that the gasket is in place.
2. Snap the closing ring over the cover and top lip of the drum. Make sure that the ring's lugs point down below the ring. Also, make sure the bottom edge of the closing ring engages under the lip of the drum.
3. Insert the bolt completely through the lug without threads. Next, screw on the jam nut if included. Finally, screw the bolt into the threaded lug.
4. While tightening the bolt, tap along the entire perimeter of the ring with a mallet, starting directly across from the bolt.
5. Tighten the bolt according to the manufacturer's recommended torque and gap (listed below). The cover and ring should not spin, and the free ends of the ring should not touch.
6. If used, tighten the jam nut or locknut against the lug without threads. This prevents the bolt from backing out of the closing ring.

PLUG CLOSURE INSTRUCTIONS

1. Place the plugs into the appropriate bung.
2. Turn the plug gently clockwise, making sure that the plug enters the bung properly.
3. Using a torque wrench, tighten the plug according to the manufacturer's recommended torque below.

TORQUE SPECIFICATIONS

NOTE: Uline does not ship containers to customers with closures secured to compliance specifications. It is the responsibility of the individual who fills the container to ensure the container is in UN compliance before shipping. Contact Uline with questions regarding proper closing methods.

CAUTION! Use only the plugs and gaskets supplied with the drums. Insert and tighten all plugs into their appropriate threaded flanges until snug. Using a torque wrench, tighten each fitting to the correct torque. Torque is based on the manufacturer's closure recommendations. Drums closed in this manner meet the UN performance-oriented packaging standards test requirements for the container markings shipped.

CAUTION! After filling and prior to transport, the shipper should check the closures to determine if closures need to be tightened due to heating, cooling or gasket relaxation.

<table>
<thead>
<tr>
<th>SIZE AND FITTING STYLE</th>
<th>TORQUE</th>
<th>GAP</th>
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<tbody>
<tr>
<td>AMERICAN FLANGE - 2&quot; STEEL - EPDM GASKET</td>
<td>15-22 FT. LBS.</td>
<td></td>
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<tr>
<td>AMERICAN FLANGE - 3/4&quot; STEEL - EPDM GASKET</td>
<td>8-15 FT. LBS.</td>
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<tr>
<td>12GA STEEL BOLT RING - EPDM GASKET</td>
<td>60 FT. LBS.</td>
<td>1/8&quot; to 5/8&quot;</td>
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