

Battery Recycling Identification Guide

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Innovative Recycling Solutions Since 1946

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Introduction

A GUIDE TO THE SAFE RECYCLING OF LEAD AND LEAD-BASED BATTERIES

Thank you for making Gopher Resource the preferred choice for the responsible recycling of your spent lead batteries and other lead-bearing materials. Today, more than 99 percent of lead batteries in North America are recycled.

This guide helps vendors better understand what we can and cannot accept for recycling.

IMPORTANT LITHIUM RESTRICTIONS THAT AFFECT YOU!

- **Dangerous.** We're seeing more lithium and other non-conforming batteries in the recycling stream. Lithium batteries are extremely dangerous and must not be delivered by vendors or contract customers.
- **No Co-Mingling Batteries.** Co-mingling lithium batteries with lead batteries on pallets destined for secondary lead recyclers is a strict violation of Federal Department of Transportation regulations and other hazardous waste and universal waste regulations. Fines and other heavy penalties can be assessed to the shipper of the batteries who violated the regulations.
- **Be Responsible.** Shippers should always inspect the types of batteries going to recycling. This extra step could prevent hefty fines or expensive disposal costs and more importantly, it helps protect the safety of everyone in the entire battery recycling process.

ABOUT GOPHER RESOURCE

We are a national environmental solutions provider in operation for over 70 years. Our purpose is the safe and efficient recycling of lead batteries throughout North America using safe, sustainable practices and advanced technologies.

WHY RECYCLE LEAD?

Responsible recycling not only protects the environment, it helps the economy by reclaiming valuable materials for new uses. For example, lead can be recycled and re-used almost indefinitely.

Gopher Resource uses the latest technologies and strictest standards to transform lead batteries and other lead-bearing materials into reusable resources, including:

- New batteries
- Sporting goods
- Construction materials
- X-ray and medical radiation protection
- Automotive parts

Together, we can help the world achieve a safer, more sustainable future!

Accepted Materials and Packaging



ACCEPTED MATERIALS

These items may be received and processed at all Gopher Resource recycling facilities:

Lead Battery Types

(See photos of examples on the following pages.)

- Automotive batteries
- Golf, deep cycle, RV, motorcycle, and lawn and garden batteries
- Industrial steel cases batteries
- Industrial cell/sleeve batteries
- Railroad batteries
- Gel cell, backup, and telecom batteries
- Standby/reserve power batteries

Other Lead-Bearing Materials

(See photos of examples on the following pages.)

- Lead plates
- Shot/range lead
- Scrap lead
- Lead ingots
- Sheet lead
- Boat keels

ACCEPTED PACKAGING

Spent batteries must be properly packaged and secured. Find instructions and videos for doing so on the Battery Council International website:

<https://batteryCouncil.org/?Transportation>



Correct Packaging



Incorrect Packaging



Incorrect Packaging

ACCEPTED MATERIALS AND PACKAGING

Automotive-type Batteries



These batteries have polypropylene cases. Categories include all lead-based auto, golf cart, lawn and garden, marine, motorcycle and RV batteries.



Industrial / Steel Case Batteries



These batteries can have a steel outer case with polypropylene cases or they may be removed from their steel outer case.



ACCEPTED MATERIALS AND PACKAGING

Gel Cell, Standby, Backup and Telecom Batteries



These batteries have non-polypropylene cases. Categories include telecom, UPS, aviation (aluminum case removed), emergency lighting, medical and backup/reserve power batteries.



Other Lead-Bearing Materials



Gopher Resource recycles other lead-bearing materials such as, lead plates, shot/range lead, scrap lead, lead ingots, lead keels and sheet lead. Contact a Gopher Resource representative for pricing.



Non-Conforming Material



Gopher Resource owns and operates facilities for the recycling of spent lead batteries and other lead-bearing materials.

Non-conforming materials directed to a Gopher Resource recycling center negatively affect everyone in many ways, including:

- Permits do not allow for the collection, storage or recycling of non-conforming items on site.
- Material “hidden” or “mixed” with compliant material may result in personal injury, damage or unscheduled shutdown of equipment.
- **No lithium!** Lithium batteries react violently in the battery breaking process, resulting in the risk of severe human injury, explosion and fire. Our goal is zero incidents.
- Rejection of the entire load, fines or incremental handling, freight and other charges will be assessed to the originator.

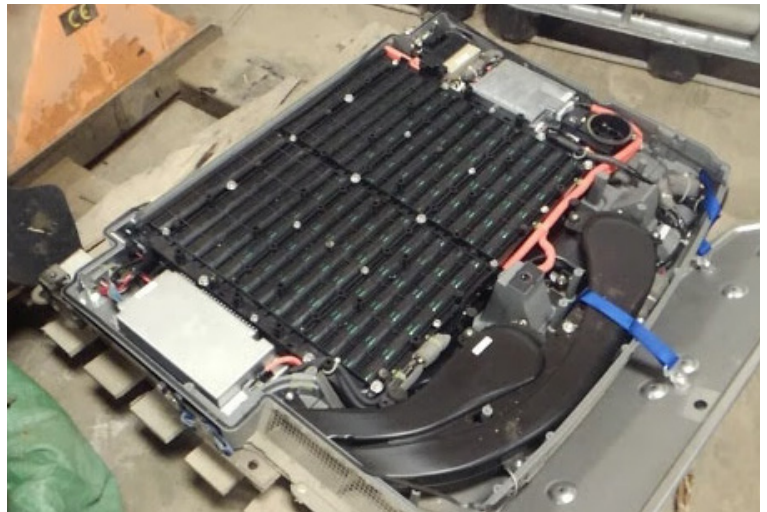
Examples of non-conforming items and materials that are not accepted by Gopher Resource include (see photo examples):

- Absolyte
- Lithium
- Nickel Cadmium
- Nickel Metal Hydride
- Jumper Packs
- Computer UPS Packs
- Alkaline
- Wheel Weights
- Ballast
- Capacitors

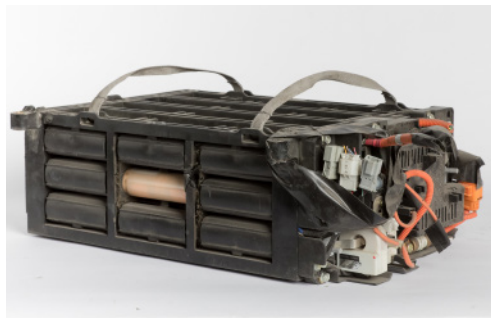
PENALTIES

Gopher Resource reserves the right to apply additional charges for the proper handling and recycling/disposal of non-conforming materials. If property damages occur, Gopher Resource reserves the right to apply additional charges for those damages as well. In the event that non-conforming shipments to Gopher Resource continue, vendor status will be removed.

Non-Conforming Material Examples



Non-Conforming Material Examples



Contacts

We are happy to answer your questions. For further information, please contact:

GOPHER RESOURCE

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Innovative Recycling Solutions Since 1946

We Are Committed to What Matters Most:

- Protecting Our Employees
- Protecting Our Community
- Protecting Our Planet