

 **ATTENTION** 

- Battery acid contains sulfuric acid, which is corrosive and can cause severe burns.
- Please ensure that you follow the individual battery manufacturer's guidance when working on, testing, or handling batteries of any type.
- Always ensure that you use appropriate personal protective equipment (PPE) when working with any battery.
- Batteries can produce explosive gases. Always work in a well ventilated area. Do not work near open flames. Avoid any action that may cause sparking.
- Do not take internally. If swallowed, do not induce vomiting. Contact a local poison control center immediately.
- Keep out of reach of children.
- Never use a metal container for storing or transferring electrolyte.
- This product is non-hazardous.

EQUIPMENT NEEDED

- Appropriate personal protective equipment (PPE)
- Battery hydrometer
- Sealable glass or plastic container (for electrolyte storage or disposal)
- Scissors or utility knife

ADDITIONAL INFORMATION

For detailed product information, material safety data sheet (MSDS), additional safety information, further usage instructions, including step-by-step instructional videos showing how to properly treat your battery, or additional questions about how this product works, visit our website:

www.thermoil.com

For all questions relating to sales, safety, or company information, contact:

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Monday - Friday, 8:00 AM - 5:00 PM

TREATING YOUR BATTERY WITH BATTERY DE-MISTER®

CAUTION: Before proceeding, read the preceding safety and preparation information, and the following usage instructions carefully.

1. Fully and properly charge battery to be treated, following manufacturer guidelines. Ensure that each cell has proper fluid level prior to charging.
2. Remove vent tube caps.
3. Perform a specific gravity test on each cell using a battery hydrometer. If readings indicate disparity among the cells or other issues with battery health, do not treat with Battery De-Mister®. Replace or repair battery.

For new batteries: replace under warranty.

For used batteries: you may be able to restore the battery to usable condition using Battery De-Sulfater.

4. Using a battery hydrometer, remove electrolyte from each cell to just above battery plates. Place extracted electrolyte in glass or plastic container. (DO NOT USE A METAL CONTAINER.)
5. Remove seal and cut tip from Battery De-Mister bottle.
6. Add proper amount of Battery De-Mister to each cell, using volume measurements on side of bottle.

To find or determine proper quantity of Battery De-Mister to add, refer to quantity chart or instructions at right.

7. Refill each battery cell with reserved electrolyte, to bring overall fluid level to about 1/8 inch below the vent tube well. The electrolyte will pass through the oil layer.
8. Replace vent tube caps.

- Store any remaining electrolyte in a sealed glass or plastic container (e.g., an empty Battery De-Mister® bottle), or dispose of properly.
- Check fluid levels regularly. If level is low, add the reserved electrolyte or distilled water to restore proper fluid level. (To preserve proper battery chemistry, use only electrolyte removed during the treating process.)

NOTE: To perform a specific gravity test on a battery treated with Battery De-Mister, follow these instructions:

- Make sure that each battery cell is to the proper full mark. The top of the oil layer should be just below the bottom of the vent tube well. If the fluid level is low, add distilled water then fully and properly charge the battery.
- Plunge the tube of the hydrometer through the oil layer until it touches the top of the battery plates. Squeeze the bulb to force out any drops of oil that may have become trapped inside the hydrometer tube.
- Release the bulb to extract the electrolyte below the oil layer.

QUANTITY CHART

For best results, the layer of Battery De-Mister® in each cell must be at least 1/2 inch deep for deep cycle batteries and 1/3 inch deep for starting batteries. Below are pre-calculated values for many common battery models.

Battery Model	Battery De-Mister® Volume (per cell)
Aerial Lift & Golf Car	
6-volt	4.0 oz. per cell
8-volt	3.0 oz. per cell
12-volt	2.5 oz. per cell
Industrial	
J185	3.0 oz. per cell
J250-J305	4.0 oz. per cell
L-16	6.0 oz. per cell
4D	4.0 oz. per cell
8D	5.0 oz. per cell
6TN-6TL Military	2.0 oz. per cell
Car, Truck, Marine & RV	
12-volt (Groups 24, 27 & 31)	2.0 oz. per cell
Small Engine	
Motorcycle	0.5 oz. per cell
U1 & lawn mower	1.0 oz. per cell

NOTE: If your specific battery type is not listed in the chart, use the instructions below to calculate the amount of Battery De-Mister® to add to each cell of the battery.

1. Remove the vent tube cap from a cell, and make sure the electrolyte is up to the proper full level, or 1/8 inch below the bottom of the vent tube well. If level is low, add distilled water to raise the level, then charge the battery before proceeding.
2. Insert a non-metallic object, such as a popsicle stick or the tube of a hydrometer, straight through the acid to check the depth of the electrolyte to the top of the plates.
3. Remove the measuring device and place it alongside a ruler. Measure the length covered by the acid. Write this number down.
4. Using a battery hydrometer, remove the electrolyte from one of the cells down to the top of the plates, placing extracted electrolyte into a glass or plastic measuring container. (DO NOT USE A METAL CONTAINER.) Measure how many ounces of fluid you have removed from the cell. Write this number down.
5. Divide the number of ounces removed by the depth of the electrolyte in inches to calculate ounces per inch. Divide this number by two (2) to determine how many ounces of Battery De-Mister® will need to be added per cell.