

Shipping guide to UN3480 lithium ion batteries

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Lithium batteries are one of the most popular battery types in the world. Lithium-ion batteries are high-energy, long-life mobile energy sources, but they have certain safety hazards. Only in accordance with the rules can avoid unnecessary transportation process and economic cost losses, and ensure the smooth shipment of products.

So when attempting to ship or transport lithium batteries either for commercial use or in bulk there are certain designations assigned to the batteries, one of which is the UN3480 lithium ion batteries. In this article, we'll be looking at the meaning, designation, methods and regulations involved in shipping UN3480 lithium ion batteries.

Lithium-ion battery packs are classified as dangerous goods in Class 9 UN3480. Lithium batteries are packaged in three ways: individually, packaged with equipment, and installed in equipment. UN is the abbreviation of United Nation, and the UN number is the number formulated by the United Nations Recommendations on the Transport of Dangerous Goods; for dangerous goods, such as the UN number of lithium batteries: UN3480, UN3481, UN3090 UN3091.

? UN3480,lithium ion batteries(Lithium-ion polymers are included)? UN3481,lithium ion batteries packed with equipment? UN3481,lithium ion batteries contained in equipment? UN3090,lithium metal batteries? UN3091,lithium metal batteries packed with equipment? UN3091,lithium metal batteries contained in equipment

Tips:Equipment; in the proper shipping name means a device powered by lithium cells or batteries for operation, vehicles powered entirely by lithium batteries (such as electric bicycles, electric wheelchairs, balance scooters) should be transported in accordance with UN3171 Battery-Powered Vehicles;. And UN3480 refers to the lithium-ion battery that is only transported as a battery, not the lithium-ion battery in the device.

While UN3480 is the designated tag used to identify lithium ion batteries for shipping, for the purpose of those who are not familiar with the United Nations shipping codes and regulatory tags, the proper name for them are UN3480 lithium ion batteries. The use of this full name ensures that there are no confusions as to the type of battery being shipped and ensures these batteries are handled and packaged appropriately.

Yes, although lithium-ion batteries have transportation risks and are considered the ninth class of hazardous substances, UN3480 lithium ion batteries can be shipped across long distances. But before this can be done the batteries must first satisfy all outlined regulatory conditions set out by the United Nations manual of Test and Criteria as well as the standards set by the country in which the shipment is to be received.

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These tests are to be carried out by the manufacturer before packaging and the manufacturer must be ready to make available, upon request, these Quality Assurance Certificates to prove the test were indeed carried out to satisfaction. These tests must follow and fulfill the requirements of the United Nations Model Regulations as well as other standard test guidelines.

There are regulations put in place for the proper shipping of UN3480 lithium ion batteries as they can be dangerous and hazardous if transported improperly. The transportation methods of lithium-ion batteries include air transportation, water transportation, and land transportation.

? It is recommended that each battery cell remain within the protective manufacturer packaging but also ensure that all terminals are covered and protected to avoid short circuits. Also the appropriate outer and inner packaging should be used for double layers of protection.

? Standalone UN3480 lithium ion batteries which are not within any equipment or device are not allowed to be transported as cargo on any passenger aircraft. Lithium batteries not packaged within a device or equipment can not be shipped alongside other cargo in a passenger plane as it may cause a fire risk, instead they must be shipped on cargo planes and not passenger aircrafts.

Since UN3480 lithium ion batteries are shipped as standalone batteries, they can be used for a wide array of applications. On reaching their destination, these batteries can be used with electric vehicles, as backup batteries for solar inverters, home appliances, power tools, flashlights and other lithium battery applications.

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