Pressure storage type perfluorohexanone energy storage host

How does perfluorohexanone work?

The device is in a storage pressure (perfluorohexanone) when it is not working,and it can be activated with a small current immediately when a fire signal is received. A pressure cavity is formed at the front end of the sealed cavity as a power source,and the perfluorohexanone is atomized by an atomizing nozzle.

Does a plunger type perfluorohexanone (c 6 F 12 o) fire extinguishing device work?

In this study, a plunger type perfluorohexanone (C 6 F 12 O) fire extinguishing device was developed, and key components such as gas generating device and puncture valve were improved. The 271 Ah lithium iron phosphate battery was used to verify the fire extinguishing efficiency and environmental adaptability of this device in extreme environments.

What is perfluorohexanone fire extinguishing agent?

The perfluorohexanone fire extinguishing agent has attracted the attention of the industry because of its environmental friendliness and good performance in suppressing lithium-ion battery fires. Perfluorohexanone is used widely to protect spaces housing electrical systems [18,19].

Does perfluorohexanone fire extinguish lithium ion batteries?

Wang et al. have studied the fire extinguishing effects of perfluorohexanone on lithium-ion batteries. The study showed that perfluorohexanone could effectively extinguishthe fire of lithium-ion batteries,and extinguished the open flame within 30 s . Liu et al. tested the application of perfluorohexanone to single LIB cells.

Does perfluorohexanone reduce flaming combustion of ejected battery materials?

Liu et al. tested the application of perfluorohexanone to single LIB cells. The study was to evaluate the ability of perfluorohexanone to suppress flaming combustion of ejected battery materials and effectively cool down the cell after it underwent thermal runaway .

How long does perfluorohexanone spray take to extinguish a fire?

The fire was extinguished within 9 s after the release of the extinguishing agent,which was faster than that of Test 6. The duration of perfluorohexanone spray was 45 s. The shorter time to extinguish the fire is mainly because of the rapid increase of internal pressure of fire extinguishing device under high temperature.

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