

Battery cabinet perfluorohexanone

Can perfluorohexanone suppress lithium-ion battery fires?

Perfluorohexanone is used widely to protect spaces housing electrical systems [18, 19]. The agent has been demonstrated to have an outstanding fire extinguishment performance and a minimal environmental impact [20, 21]. Therefore, the perfluorohexanone was selected as the potential inhibitory medium for suppressing lithium-ion battery fires .

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 a plunger type perfluorohexanone (C₆F₁₂O) fire extinguishing device work?

In this study, a plunger type perfluorohexanone (C₆F₁₂O) 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.

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.

Lithium-ion battery (LIB) is often capable of causing great harm in the event of a fire, and existing extinguishing agents are unable to achieve fast, efficient, convenient and low-cost ...

Theoretical Calculation Fire Extinguishing Device Physical Parameters Test Design Perfluorohexanone is a fluorinated ketone compound. It is a colorless, odorless, and easily vaporized liquid fire extinguishing agent at room temperature. No residue is left after evaporation. The main fire extinguishing mechanism is chemical suppression and flame cooling. The relevant physical parameters are listed in Table 1. The CATL (China Ampe... See more on link.springer .sb_doct_txt{color:#4007a2;font-size:11px;line-height:21px;margin-right:3px;vertical-align:super}.b_dark .sb_doct_txt{color:#82c7ff}l6plumbuild [PDF] Battery cabinet perfluorohexanone 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. ...

Explore how DLCPO Power Technology integrates advanced perfluorohexanone microcapsule fire suppression patches into battery PACK manufacturing. This breakthrough ...

Cabinet-Type Perfluorohexanone Fire Extinguishing System for Battery ... The Cabinet Type HFC-227ea Fire Extinguishing System is an advanced, clean agent fire suppression system that excels in ...

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Perfluorohexanone (Novec 1230), a new type of clean fire extinguishing agent, was introduced by 3M Company in the United States, and was selected as the only gas ... Li-ion battery (LIB) energy ...

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Fire suppression and cooling effect of perfluorohexanone on thermal runaway of lithium-ion batteries with large capacity. In 2021 IEEE 5th Conference on Energy Internet and Energy ...

Basic Description of Perfluorohexanone Fire Extinguisher The Perfluorohexane fire extinguisher is a device that automatically extinguishes fires in power distribution cabinets and energy storage battery ...

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Cabinet-Type Perfluorohexanone Fire Extinguishing System for Battery Energy Storage Systems, Find Details and Price about Energy Storage Station Fire Protection Perfluorohexanone ...

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 ...

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