

Does perfluorohexanone decompose at high temperatures?

Although some components of the perfluorohexanone O/W microemulsion may thermally decompose at high temperatures and contribute to smoke generation, the foam produced upon its release--formed by water and the surfactant OBS--can effectively capture large quantities of toxic gases.

Can perfluorohexanone O/W microemulsion improve LIB safety?

With the growing demand and widespread application of LIB, fire-related risks have become increasingly prominent. As an environmentally friendly, economical, and convenient fire extinguishing agent for LIB, perfluorohexanone O/W microemulsion demonstrates broad application prospects and holds significant potential for improving LIB safety.

How effective is perfluorohexanone as a clean gas extinguishing agent?

Perfluorohexanone (C₆F₁₂O), as a clean gas extinguishing agent, demonstrates remarkable inhibitory performance by absorbing a significant amount of heat upon release and generating fluorine-containing free radicals to suppress the spread of LIB fires.

What are the physical properties of perfluorohexanone?

Physical Parameters 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.

Does perfluorohexanone O/W microemulsion reduce flame temperature?

In summary, the perfluorohexanone O/W microemulsion can significantly reduce the flame temperature of the LIB jet. Higher C₆F₁₂O content results in a more pronounced inhibition effect, with the maximum reduction reaching approximately 51%. Additionally, the microemulsion forms foam during spraying, providing continuous cooling to the LIB.

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.

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With the widespread application of lithium-ion batteries (LIBs) in electric vehicles, electrochemical energy storage systems, and other fields, fire safety issues associated with LIBs have become ...

In this review, integrated strategies for intelligent detection and fire suppression of LIBs are presented and can provide theoretical guidance for key material design and intellectual safety ...



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