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## 多组分细水雾对乙醇汽油的灭火效能研究(PDF)

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Title: Research on polycomponent water mist' s extinguishing efficiency against ethanol motor spirit

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关键词: 消防; 多组分细水雾; 乙醇汽油; 灭火

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摘要: 分析了细水雾灭火时液滴的吸热蒸发过程和汽油与乙醇汽油的燃烧特性,进行了汽油、乙醇在封闭空间内从燃烧到自行熄灭时的含氧量变化测量。进行了多组分细水雾与细水雾的灭火性能比较,和用多组分细水雾对汽油火、乙醇汽油火的灭火性能试验。研究表明,多组分细水雾比普通细水雾具有更好的灭火效果,乙醇汽油火的灭火难度要比汽油火的大,多组分细水雾用于乙醇汽油场合灭火时,其灭火工作压力要大于用于汽油的场合。

Abstract: This paper analyses the heat absorption and evaporation process of the droplet,the combustion characteristic of motor spirit and ethanol motor spirit,and oxygen concentration of motor spirit and ethanol motor spirit was measured from burning to self extinguishing in the enclosed space.Comparison experiments of water mist with polycomponent water mist,and the test on

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polycomponent water mist? extinguishing efficiency against ethanol and ethanol motor spirit fire were done. It is proved that polycomponent water mist has better extinguishment efficiency than waer mist; it is more difficult to put out a ethanolmotor spirit fire than a motor spirit fire; the work pressure what is needed to extinguish a ethanolmotor spirit fire is higher than that for motor spirit fire.

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