

HOW DOES AVD EMULSION WORK

The vermiculite particles within the mist are deposited on the surface of the burning fuel to create a film over the top of the fire. The film instantly dries and, because the high aspect ratio platelet particles overlap and bind together, a non-flammable oxygen barrier between the fuel and the atmosphere is produced.

This process has a cooling effect on the fuel source and, as the water content in AVD is evaporated, the vermiculite platelets begin to build up and the fire is brought under control.











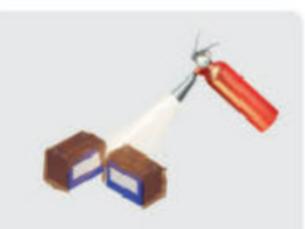
When lithium-ion batteries are exposed to heat, physical/impact damage or overcharging, they go into thermal runaway.



The cells are sufficiently swollen, releasing hot flammable gases (hydrocarbons) that are formed as the electrolyte dissociates.



The hydrocarbons burn vigorously at high temperatures and rapidly spread the fire to the surrounding cells and flammable materials.



AVD encapsulates the fuel source and insulates the cells, preventing further propagation of thermal runaway - bringing the fire under control.



AVD is applied as a fine mist, which instantly cools the batteries and extinguishes the flames.

PERFORMANCE DATA

| MODEL | KFLIHQ-1 | KFLIHQ-2 | KFLIHQ-6 | KFLIHQ-9 |
|------------------------------------|--------------------------------|------------|------------------|------------|
| Capacity | 1 Ltr | 2 Ltr | 6 Ltr | 9 Ltr |
| Design | Nozzle | | Hose with Nozzle | |
| Fire Rating | 3A | 5A | 13A | 13A |
| Height (Approx.) | 325 mm | 370 mm | 5 70 mm | 640 mm |
| Diameter (Approx.) | 86 ± 5 mm | 106 ± 5 mm | 150 ± 5 mm | 180 ± 5 mm |
| Average Discharge time | 25 Sec | 50 Sec | 120 Sec | 170 Sec |
| Average Range of throw | 1.5 - 2 m | 1.5 - 2 m | 1.5 - 2 m | 1.5 - 2 m |
| Average % Discharge | 97% | 97% | 97% | 97% |
| Operating Temperature | +5 °C to + 60 °C | | | |
| Service/Max. service/Test Pressure | 15 / 18 / 35 bar | | | |
| Expelling Agent | Nitrogen (UHP Grade) | | | |
| Empty Weight (Approx.) | 2.2 kg | 2.7 kg | 4.9 kg | 5.5 kg |
| Full Weight (Approx.) | 4.2 kg | 5.7 kg | 10.9 kg | 14.5 kg |
| Shipping Weight (Approx.) | 4.5 kg | 6.1 kg | 11.3 kg | 15.0 kg |
| Mounting Bracket | VEHICLE MOUNTED / WALL MOUNTED | | WALL MOUNTED | |
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