



شركة المصنع السعودي لأجهزة الإطفاء
SAUDI FACTORY FOR FIRE EQUIPMENT Co.

Empowering
a **Safer Future** for
the Kingdom



**EV Battery
Fire
Extinguishers**

Quality Approvals for Various Products and Services

VER: 01-04/26

The Global Standard in Fire Safety

Since 1983, SFFECO has been the trusted name and a recognized global leader in manufacturing top-tier fire-fighting equipment. We don't just offer products; we provide total fire safety solutions like fire doors, fire cabinets, fire pumps, fire extinguishing systems, etc. Our commitment to excellence is certified by multiple international standards, including ISO 9001 (Quality), ISO 14001 (Environmental), and ISO 45001 (Health & Safety). With state-of-the-art facilities in Riyadh and Dubai, we ensure every product meets rigorous international quality standards.

One-Stop-Shop for Fire Protection

SFFECO is your single source for everything in fire protection and fire-fighting. Represented in over 100 countries through a vast network of dealers, our innovative approach and comprehensive, end-to-end product range deliver the full spectrum of solutions you need. We're dedicated to keeping you safe and updated, constantly integrating the latest fire-fighting technology into our knowledge and services. Choose SFFECO and get certified quality, global reach, and pioneering innovation—all in one place.



Quality Services

SFFECO is deeply committed to ensuring superior performance and accuracy in every product it delivers. This dedication is maintained through continuous, close collaboration with a wide array of stakeholders, including key certification bodies, government regulatory agencies, industry partners, and leading technology associations. This concerted effort focuses on the development and delivery of truly innovative and high-quality fire-fighting solutions. The commitment to excellence is rigorously upheld through extensive product testing and evaluation, alongside a strict, ongoing process for continued product quality compliance, guaranteeing that SFFECO's equipment operates with assured reliability when it matters most.

SFFECO is dedicated to providing fire safety products of the highest quality and performance. We achieve this by working closely with certification bodies, government regulatory agencies, industry partners, and technology associations. This collaboration ensures our innovative products are backed by extensive product testing and evaluation, and maintained through continuous quality compliance.

As global leaders since 1983, SFFECO believes in manufacturing quality products and offering exceptional service standards worldwide. Our primary goal is to reward our customers by keeping their investments safe and secure. Our manufacturing plant has steadily grown and is now equipped with modern hi-tech equipment and staffed by highly skilled professionals. With optimal ISO-certified operations, we consistently roll out products that match global standards to serve the needs of the growing fire safety market.



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EV Battery Fire Extinguisher



What Is Aqueous Vermiculite Dispersion (Avd)?

- ❖ Fire-extinguishing agent based on natural minerals.
- ❖ A gold/brown, stable, aqueous suspension of Vermiculite platelets.
- ❖ It has excellent thermal insulation properties and is nonflammable
- ❖ It is the only agent that contains, cools and extinguishes lithium battery fires.
- ❖ can be used in both portable and fixed fire safety systems – including sprinklers and lithium battery fire extinguishers.
- ❖ AVD is non flammable and has excellent insulation properties.

Features:

- ❖ Effectively extinguishes Class A fires
- ❖ Effectively extinguishes flammable metal fires
- ❖ Proven results on lithium battery fires
- ❖ Prevents the spread of fire
- ❖ Environmentally friendly
- ❖ Water content cools the fire source
- ❖ Vermiculite platelets encapsulate the fuel source creating an oxygen barrier
- ❖ The vermiculite film is not electrically conductive
- ❖ It is nearly twice as effective as water on a class A fires

- ❖ Lithium battery fires can be caused by physical damage, short circuits, overcharging, or increased external temperatures. As the temperature increases, the electrolyte boils and the separator and electrodes decompose; this is called thermal runaway.
- ❖ Lithium batteries pose particular problems because of their volatile, flammable electrolyte, their high energy density, and their widespread use – a low failure rate can still lead to fires.
- ❖ Aqueous Vermiculite Dispersion (AVD) is a revolutionary fire extinguishing agent for lithium battery fires. A unique and effective lithium battery fire protection product, AVD is the only one of its kind.
- ❖ Fires caused by lithium batteries can have severe consequences, so taking the right precautions is crucial. To effectively combat the blaze, we offer a solution that can be used across a range of applications.
- ❖ The AVD agent offers an effective level of protection from lithium battery fire; hence, preventing the spread of heat as it is applied as a mist. Even the AVD agent acts as a fire break. The perlite particles present within the mist gets deposited on the surface of the burning fuel to create a film on top of the fire.
- ❖ They can also be used for different industries, as well as, applications. For instance, they can be used to protect against fires triggered by consumer electronics, such as a laptop or mobile phone explosions. Also, they can be used in confined spaces, such as homes, vehicles, aviation, marine facilities, leisure facilities, and more.



EV Battery Fire Extinguisher



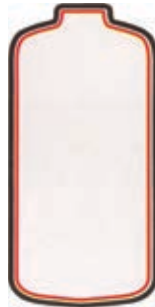
Class of Fire



Solid matters forming glowing residues. e.g. wood, rubber (car tires), paper, textiles.



EV Lithium Batteries



Special Internal Coating

The Internal part of the extinguisher has been coated with special plastic coat, integrated by Whirl Sintering process.

Model	EV-AVD 6	EV-AVD 10	EV-AVD 12
Capacity	6 Kg	10 Kg	12 Kg
Total Weight	9.58 Kg	14.8 Kg	17.8 Kg
Total Height with Base (mm)	530	630	630
Total Width with Valve (mm)	200	205	205
Cylinder Height w/o Base (mm)	505	615	615
Cylinder Diameter (mm)	150	185	185
Hose Length (mm)	480	520	580
Maximum Effective Range (m)	6.5	8.5	8.5
Duration of Discharge (Sec)	10-14	14-22	14-22
Extinguishing Agent	Aqueous Vermiculite Dispersion (AVD)		
Propelling Agent	Nitrogen		
Working Pressure	12-15 Bar		
Testing Pressure	30 Bar		
Coating	Electrostatic Polyester Powder		
Storage Temperature	-20°C to +60°C		

NOTE: *Without Base Dimensions



Since 1983, SFFECO has been a trusted name in fire protection, known for innovation and quality worldwide.

With state-of-the-art facilities in Riyadh and Dubai, we deliver a complete range of firefighting solutions that meet international standards.

Our innovative approach and comprehensive product portfolio make SFFECO the one-stop destination for reliable fire protection products and services.

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