



AVD[®]



fire protection
TECHNOLOGIES

LITHIUM BATTERY FIRE BLANKETS



Are you prepared for a
lithium-ion battery fire?

- Working temperature >1000°C
- Fireproof technical fabric with fire resistant coating
- Fire resistant re-enforced multi-layered edge lining
- Eyelets for tethering or suspending
- Fire resistant industrial stitching
- Handling loops on all corners



NEW HIGH PERFORMANCE BATTERY FIRE BLANKET

SPECIFICALLY DESIGNED FOR LITHIUM ION BATTERY PACKS

AVD Fire a division of Dupré Minerals Ltd has developed a new range of high performance lithium-ion battery fire blankets ("Blankets") which are multi-use specifically for the lithium-ion battery market. Our Blankets are capable of withstanding extremely high temperatures in an oxidising atmosphere for a prolonged period of time as well as being robust enough to provide a measure of protection against potential debris and shrapnel expelled during a battery fire.

TECHNICAL BENEFITS

The AVD Fire range of Blankets are manufactured using fire resistant technical fabrics based on the highest temperature resistant silica glass fibres.

Flame deflection protection is added to these fibres as well as abrasion resistance utilising a variety of proprietary surface coatings. The non-flammable, vermiculite dispersion mineral-coated glass fabric is overlaid with a sacrificial, protective silicone layer.

In-house testing has been completed on exposed lithium-ion batteries up to 840 Wh.

1000°C

No rupture of the fabric after several hours of application of either a point flame source or in a constant temperature furnace.

1200°C

No rupture after 30 minutes.

1300-1500°C

Brittle after 10 minutes.

The base fabric is fully oxidized and will not ignite. When subjected to temperatures above the stated operating temperature for an extended period of time the fabric will exhibit localized degradation and become brittle.

These blankets are multi-use - see website for further information regarding the viability of re-use after involvement in a significant fire.



1700 x 2000 mm



2600 x 3300 mm



6000 x 8000 mm



DOWNLOAD THE USER GUIDE



WATCH THE DEMONSTRATION



PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® / NAF S 227 (HFC-227ea.)
Ecaro 125® / NAF S 125 (HFC-125)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe & Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Foam Concentrate Testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility Testing

Fire Detection



Linear Heat Detection - Digital
Linear Heat Detection - Fibre Optic
Linear Heat Detection - Micro Chip
Flame Detection
Video Imaging Detection
Spark Detection
Control & Indicating Equipment
Thermal Imaging Detection
Aspirating Smoke Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Compressed Air Foam
Marine & Offshore Vapour
Mitigation
Lithium-Ion Fire Systems

Support Services



Design / Engineering
Technical Support
Services & Testing

Australia

Head Office

Unit 1, 251 Ferntree Gully Road
Mt Waverley VIC 3149
Australia

Brisbane Office

Unit 7, 93 Rivergate Place
Murarrie QLD 4172
Australia

Perth Office

18 – 20 Ledger Road
Balcatta WA 6021
Australia

Sydney Office

Unit 5, 11 Reliance drive Tuggerah
NSW 2259
Australia

1300 742 296

www.fire-protection.com.au

New Zealand

Auckland Office

Unit 2, 13 Airborne Road
Albany North Shore 0632
New Zealand
www.fire-protection.net.nz

South East Asia

Regional Head Office

14 Gul Ave,
Singapore, 629657
www.fire-protection.com.sg



'Every solution for your special hazard problems'