Test Report

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Customer / Contact / Reference	Customer Responsible
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Title

Surface- and volume resistivity testing of Lithium Fire Blanket

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Background

On behalf of Bridgehill AS, Norner AS has performed surface- and volume resistivity testing of Lithium Fire Blanket.

Conclusions/Proposals

The Lithium Fire Blanket shows good surface- and volume resistivity based on these measurements and can be classified as antistatic with resistivity between 10^9 – 10^{12}.

Proposal for further work

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Attachments

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1 Introduction

On behalf of Bridgehill AS, Norner AS has performed surface- and volume resistivity testing on a Lithium Fire Blanket sample.

The sample is made up of the following layers:

- 2 layers of 600 gsm silica fabric
- 4 layers of 50 gsm BridgeTech™ polymer coating
- 650 gsm silica felt

Revision 07.08.2025: Surface resistivity corrected.

2 Experiment description and results

Method	Surface- and volume resistivity – in accordance with ASTM D257
Instrument	Resistance/Resistivity Probe System Model 823-847 – Electro-Tech Systems
Specimen type	Fire blanket with silica fabric, BridgeTech™ polymer coating, and silica felt
Test conditions	100V source voltage

The samples were clamped with an ETS Model 847 press to ensure an even thickness during measuring. The sample thickness was measured to be 2.55 mm for this sample. The results of the testing are presented in Table 1.

Measurements were carried out on 2 to 3 different locations on the sample.

Measurement type	Average	Standard deviation	Resistivity
Surface	4.4×10^{10}	6.3×10^{8}	4.4×10^{10}
Volume	2.9×10^{10}	9.8×10^{8}	8.0×10^{11}

The Lithium Fire Blanket shows good surface- and volume resistivity based on these measurements and can be classified as an antistatic material with resistivity between 10^{9} – 10^{12}.

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