Test Report

Report ID.	Norner project no	Date	Classification
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Customer / Contact / Reference	Customer Responsible
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Title

Surface- and volume resistivity testing of fabric blend with BridgeTech™ polymer coating.

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Background

On behalf of Bridgehill AS, Norner AS has performed surface- and volume resistivity testing of a fabric blend with BridgeTech™ polymer coating.

Conclusions/Proposals

The coated fabric blend sample 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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Legal notice[i]

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1 Introduction

On behalf of Bridgehill AS, Norner AS has performed surface- and volume resistivity testing on a coated fabric blend sample.

The fabric blend consists of

- Silica
- Alumina
- Calcium oxide
- Boron Oxide

Both sides of the fabric blend are coated with BridgeTech™ polymer coating.

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 fabric blend with BridgeTech™ polymer coating.
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 0.39 mm for this sample. The results of the testing are presented in Table 1.

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

Table 1 Results

Measurement type	Average	Standard deviation	Resistivity
Surface	1.6×10^{10}	1.1×10^{9}	1.6×10^{10}
Volume	4.7×10^{9}	3.1×10^{8}	8.6×10^{11}

The coated fabric blend sample 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}.