DEKRA EXAM GmbH

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Report
on the testing of the electrostatic properties of a textile filter material Type CPX400P1G

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Client:	Andrew Webron Ltd. Hareholme Mill Barcup Road Lancashire BB4 7 JL United Kingdom
Responsible:	Dr.-Ing. Carsten Blum
Reference:	100/268bE/08 BVS-BI

Bochum, 20.08.2008

DEKRA EXAM GmbH

C. Blum
(Dr. Blum)

(Simanski)

This report consists of 3 pages and may only be published unchanged.

1. Subject: Filter fabric

2. Type description: CPX400P1G

3. Manufacturer/client: Andrew Webron Ltd., United Kingdom

4. Test documents: 1.) test order of 23 July 2008
2.) test sample

5. Assessment

To determine the electrostatic chargeability, the sample was tested according to DIN 54345 Parts 1 and 5.

Test according to DIN 54345-1

Surface resistance R_{OT} (geometric median of the values of five measurements each):

Side 1: $R_{OT} < 1{,}0 \cdot 10^3\ \Omega$, Side 2: $R_{OT} < 1{,}0 \cdot 10^3\ \Omega$.

Volume resistance R_{DT} (geometric median of the values of five measurements each):

$$R_{DT} < 1{,}0 \cdot 10^3\ \Omega.$$

Due to the low resistance values, the test was carried out with a reduced measuring voltage of 10 V.

Test according to DIN 54345-5

Strip resistance R_{st} in longitudinal (warp) direction (arithmetic median of five samples):

$$R_{st30} \approx 2{,}0 \cdot 10^4\ \Omega.$$

Strip resistance R_{st} in transverse (fill) direction (arithmetic median of five samples):

$$R_{st30} \approx 4{,}9 \cdot 10^3\ \Omega.$$

Due to the low resistance values, the test was carried out with a reduced measuring voltage of 10 V.

Deviating from the provisions made in DIN 54 345, the test was conducted after at least 24 hours of storage in normal climate according to DIN 50 014 -23/50-2 at a temperature of 23 °C and a relative humidity of 50 %.

The maximum permissible resistance value is: $10^8\ \Omega$.

This value was under-run in all measurements.

6. Evaluation

In an electrostatic sense, there is no objection to using the earthed filter material in hazardous places.

Bochum, 20 August 2008

Responsible

(Simanski)