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## Measure the ohmic resistance on filters with Alu surface.

Task reference: T201933

S.E.W North Filtration A/S

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### **Subject:**

Measure the ohmic resistance on 3 filters with aluminium surface.

### **Samples:**

- |                                |   |                                      |
|--------------------------------|---|--------------------------------------|
| 1 Filter with ABS flange       | - | type no. L145x1000mm SEW142/152/162. |
| 1 Filter with Aluminium flange | - | type no. L225x1000mm SEW142/152/162. |
| 1 Filter with Steel flange     | - | type no. L325x600mm SEW142/152/162.  |

### **Applied method:**

1. Measure the ohmic resistance between two points on the aluminium material surface.
2. Measure the ohmic resistance between the wire from the filter with ABS flange and the aluminium material surface.
3. Measure the ohmic resistance between Aluminium/Steel flange and the aluminium material surface.

### **Equipment used:**

Unilap ISO for insulation resistance Qk. no. 59190.

Almemo 2290-4 Qk. No. 86670.

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**Results:**

The resistance has been measured on the 3 filters with aluminium surface. See the tables and the photos below.

**Table 1.**

<b>Filter with ABS flange</b>	<b>Ohmic resistance</b>
Aluminium surface – Aluminium surface 1	0,33k $\Omega$
Aluminium surface – Aluminium surface 2	0,38k $\Omega$
Wire – Aluminium surface 3	0,36k $\Omega$

**Table 2.**

<b>Filter with Aluminium flange</b>	<b>Ohmic resistance</b>
Aluminium surface – Aluminium surface 1	0,38k $\Omega$
Flange – Aluminium surface 2	0,54k $\Omega$
Flange – Aluminium surface 3	0,41k $\Omega$

**Table 3.**

<b>Filter with Steel flange</b>	<b>Ohmic resistance</b>
Aluminium surface – Aluminium surface 1	0,34k $\Omega$
Flange – Aluminium surface 2	0,31k $\Omega$
Flange – Aluminium surface 3	0,22k $\Omega$

Temperature during the measuring : 20,6 °C.  
Relative humidity during the measuring : 22,5% RH.

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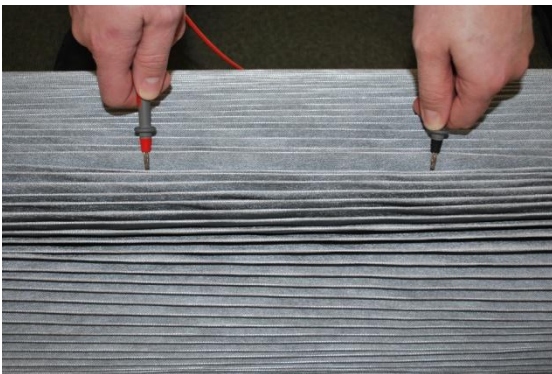
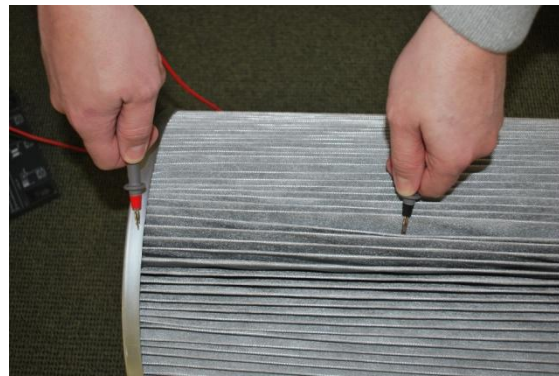
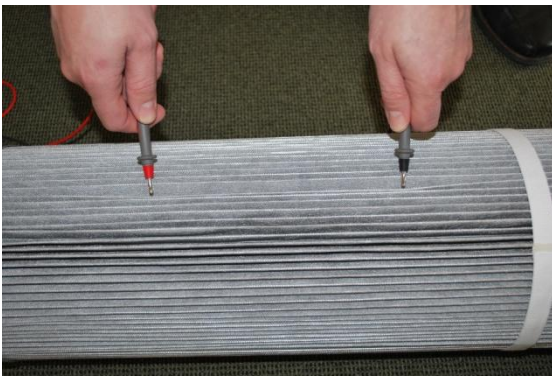
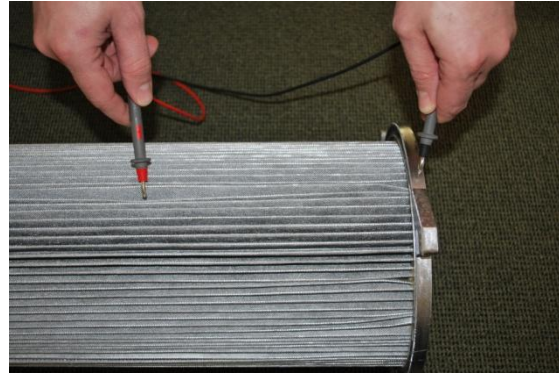
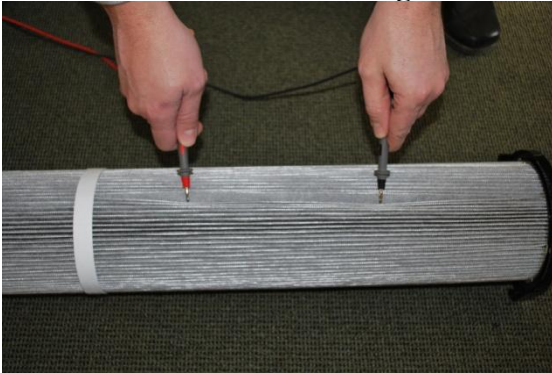
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**Photo of resistance measuring:**



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