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Title: **Foam Wound Dressing Testing - Adhesiveness**

Date: **5th October 2006**

Other Keywords:

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**S . M . T . L .**

subject: **Foam Wound Dressing Testing - Adhesiveness**

date: **5th October 2006**

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**Report No: 06/2283/1**

*Test Report*

06/2283/1

**1. Name & Address of Client/Requesting Authority.**

Ed Walton  
Smith & Nephew  
Healthcare Ltd.  
Healthcare House  
Goulton Street  
Hull, HU3 4DJ  
England, UK

Email:ed.walton@smith-nephew.com

**2. Introduction**

The SMTL were requested by the client to perform comparative testing on Smith & Nephew New Allewyn and Competitor A Foam Island Dressings.

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### 3. Test Product(s)/Sample(s)

TABLE 1. Test Product(s)/Sample(s) tested by SMTL.

Manufacturer	Item	Batch/Cat No.	Quantity	Date Received
Smith & Nephew	New Allevyn Adhesive 10x10cm foam dressing	0637/ 66000599	55	04/10/2006
Competitor A	Product A 10x10cm foam island dressing	xxxxx/ xxxxxxxxx	50	04/10/2006
Competitor A	Product A 10x10cm foam island dressing	xxxxx/ xxxxxxxxx	5	04/10/2006

**NOTE: The test results in this report relate only to the test sample(s) analysed.**

#### 3.1 Departures/Abnormalities of Sample Condition

None

### 4. Date of Testing

October 2006

### 5. Testing Details

#### 5.1 Adhesiveness

The adhesiveness of the dressing is determined using the SMTL test method TM-186<sup>(1)</sup> which is based on the method listed in the *British Pharmacopoeia 1993 (Addendum 1996), Semipermeable hydrocolloid dressings*.

A steel plate is marked with a horizontal line, 25mm from its shortest side. A sample of dressing measuring 2.5cm in width and a length sufficient enough to overhang the plate by 3-4cm is applied to the plate at the horizontal line. A load of 20N per cm width is applied to the sample length. The plate with sample and weight is placed into the jaws of a clamp in an incubator set at 37±1°C. The plate is inclined at an angle of 2° from the vertical direction so that the sample does not peel from the plate and a force of 0.8N per cm width is applied to the free end of the sample. Following 30 minutes, any slippage that has occurred from the marked line is measured using a calibrated steel rule and recorded.

#### 5.2 List of SMTL Test Methods Used.

— TM-186 - Adhesiveness of hydrocolloid dressings

#### 5.3 Standards relevant to the test method.

— *British Pharmacopoeia 1993 (Addendum 1996), Semipermeable hydrocolloid dressings*

#### 5.4 Deviations/exclusions from, and additions to standard methods.

None

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### *5.5 Sampling Details*

All samples were selected and supplied by the client.

### *5.6 Sample Preparation*

As stated in the SMTL test method.

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## 6. Results

### 6.1 Adhesiveness

The results from the adhesiveness determination are summarised in Tables 2 and 3 below.

**TABLE 2.** Adhesiveness of Allevyn dressings

Sample No.	Sample width (mm)	Length of slippage (mm)	Complies/ Does not comply †
1	25	0	Complies
2	25	0	Complies
3	25	0	Complies
4	25	0	Complies
5	25	0	Complies

**Note:**

† Slippage shall be no more than 2.5mm.

**TABLE 3.** Adhesiveness of Product A dressings

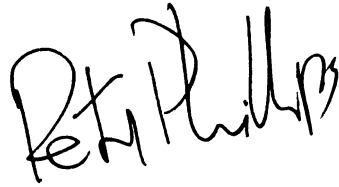
Sample No.	Sample width (mm)	Length of slippage (mm)	Complies/ Does not comply †
1	25	0	Complies
2	25	0	Complies
3	25	0	Complies
4	25	0	Complies
5	25	0	Complies

**Note:**

† Slippage shall be no more than 2.5mm.

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A handwritten signature in black ink, appearing to read 'Peter Phillips', is centered on the page.

Authorised by: Peter Phillips  
Acting Director, SMTL  
April 2007

*References*

1. Surgical Materials Testing Lab., "Adhesiveness of hydrocolloid dressings," TM-186 ().

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