

Type	Improved wound healing	Absence of pain	Fluid handling properties	Physical properties	Page
In-vitro			●		51

Fluid handling capacity

Laboratory Testing carried out at B. Braun Hospicare
Data referenced in BBH 301PTDF REV004

Background and objective

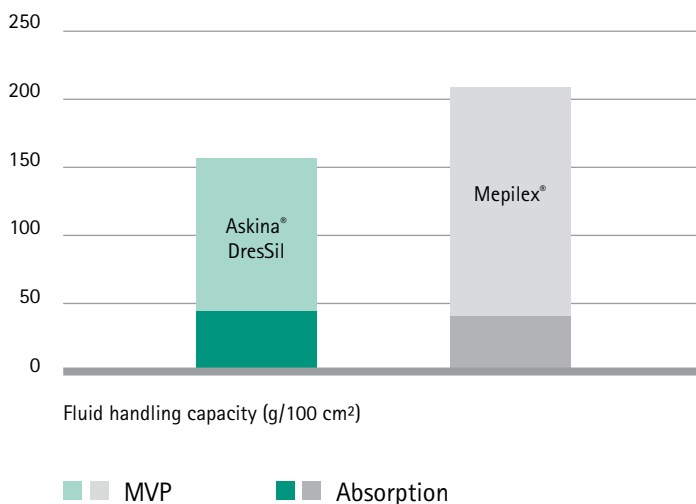
The good fluid handling characteristics of the dressing are important for patient comfort and safety (no maceration, no leaking), but also for healthcare professionals as they signify longer wear time and less frequent dressing changes.

The aim of this study was to assess the absorbency and vapour loss of Askina® DresSil in comparison with the market leading product, Mepilex®.

Method

The fluid handling characteristics were determined according to the Aspects of Absorbency is carried out as per Standard I.S. EN 13726-1:2002 "Test Methods for primary wound dressings – Part 1: Aspects of Absorbency" were measured according to the Standard I.S. EN 13726-1:2002 "Test Methods for primary wound dressings – Part 1: Aspects of Absorbency".

Results



Conclusion

The fluid handling characteristics of Askina® DresSil are in line with fluid handling characteristics of Mepilex®.

Retention Capacity

Laboratory Testing carried out at B. Braun Hospicare
Data referenced in BBH 301PTDF REV004

Background and objective

The retention capability of the dressing is the ratio between capacity under pressure and free absorption capacity of the dressing. This property reflects the possibility to use the dressing under compression therapy.

The aim of this study was to compare the retention capability of Askina® DresSil and the one of the market leading products.

Method

The retention was determined according to the following method.

A 50mm diameter is taken from the centre of the dressing and saturated with 0.9% saline solution for 24 hrs. The sample is removed from the saline and reweighed. Then the sample is placed on a flat surface and a 1120 g weight (which is equal to a pressure of 35 mm Hg) is placed on the sample for three minutes. After three minutes, the weight is removed and the sample is reweighed. From these weights the % retention can be calculated.

Results

The results are expressed as a percentage of the liquid which is retained after the saturated dressing was placed under pressure. Askina® DresSil retains 70.04% of the liquid under pressure.

Product	Company	Retention % / 24h
Askina® DresSil	B. Braun	70.04
Mepilex®	Mölnlycke	54.16
Allevyn® Gentle	S&tN	54.26

Conclusion

The retention capacity of Askina® DresSil is higher than the retention capacity of the two leading competitor products. The product is suitable for use under compression therapy.