

# FLAMMABILITY TEST REPORT

Report No.: LEHTX00914756

Date Received: 11/10/16

Date Tested: 19/10/16  
& 20/10/16

Date Issued: 20/10/16

**Company Name & Address:** DAN MEDICA SOUTH LTD  
28 DOWNSVIEW AVENUE  
STORRINGTON  
PULBOROUGH  
WEST SUSSEX  
RH20 4PS

**Contact Name:** LYNNE TIMM

**Sample Details**

Reference No.: Not stated  
Order No.: Not stated  
Style No.: TEM  
Batch No.: 1  
Quality: Not stated  
Colour: Blue  
Supplier: Dan Medica South Ltd  
Intended use: Acute hospital mattress overlay  
Quoted fibre composition: Polyester  
Retailer: Not stated  
Buying Division: Not stated  
Sample description: Blue and white coloured woven fabric  
White coloured mesh inner  
White coloured knitted fabric  
Cream coloured knitted fabric  
Cream coloured knitted fabric  
White coloured mesh inner  
Cream coloured knitted fabric  
Blue and white coloured woven fabric  
White coloured mesh inner  
White coloured knitted fabric  
Blue and white coloured woven fabric  
White coloured mesh inner  
White coloured knitted fabric

BS 7177: 2008 + A1: 2011 Specification for resistance to ignition of mattresses, mattress pads, divans and bed bases		
	Requirement	
Clause 4 Performance requirements for resistance to ignition	Medium Hazard	PASS
Clause 5 Sampling and frequency of testing (as Annex A)	See below	N/A
Based on the results achieved the sample tested <b>meets</b> the performance requirements for resistance to ignition as detailed in the Domestic use (Medium Hazard) category of Table 1 in Clause 4 of BS 7177: 2008 + A1: 2011		

**Please note:** To claim compliance with Clause 5 (Sampling and frequency of testing) mattresses and their filling materials shall be tested as detailed in the table below

Number of units produced per month	More than 2400	Between 400 and 2400	Less than 400
Number of units tested	1 per month	1 per 2400 units	1 every 6 months

.....  
**STEVEN OWEN**  
(Chemical Technologist)

.....  
**ANDREW HALLETT**  
(Flammability Team Leader)

.....  
**CAROLE SPOWART**  
(Flammability Technician)

.....  
**SIMON CHEE**  
(Operations Manager)

## FLAMMABILITY TEST REPORT

### Test Specification

Test Method: BS EN 597-1: 1995 and BS EN 597-2: 1995 as required by  
BS 7177: 2008 + A1: 2011 Low Hazard  
Ignition Source: BS EN 597-1: 1995: Filterless cigarette.  
BS EN 597-2: 1995: Butane Gas flowing at  $45\pm 2$ ml/min @ 25°C for  $15\pm 1$  seconds

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### Conditioning

Prior to Testing: At least 16 hours in an atmosphere having a temperature of  $23\pm 2$ °C and a relative humidity of  $50\pm 5\%$   
At Time of Testing: Temperature between 15°C & 30°C. Relative humidity between 15% & 80%

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### Pre-treatment / Durability procedure

None

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## FLAMMABILITY TEST REPORT

### Test Results (Top of Mattress)

#### BS EN 597-1: 1995 Smouldering cigarette

Test number / position	1 (Upper surface of mattress)		2 (Upper surface of mattress)		1 (Tape edge)		2 (Tape edge)			
<b>Criterion of ignition</b>										
<b>Smouldering Criteria</b>										
Unsafe escalating combustion	No		No		No		No			
Test assembly consumed	No		No		No		No			
Smoulders through thickness	No		No		No		No			
Smoulders more than 1 hour	No		No		No		No			
More than 50mm from source	No		No		No		No			
<b>Flaming criteria</b>										
Occurrence of flames	No		No		No		No			
<b>Comments</b>										
Flaming ceased	-		-		-		-			
Sample glowing ceased	-		-		-		-			
Smoke ceased	< 18 Minutes		< 18 Minutes		< 18 Minutes		< 18 Minutes			
Extent of damage (mm) Width / Length	12	63	10	62			11	62	12	64
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>				<b>Non Ignition</b>		<b>Non Ignition</b>	
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>										

#### BS EN 597-2:1995 (Match Equivalent).

Test number / position	1 (Upper surface of mattress)		2 (Upper surface of mattress)		1 (Tape edge)		2 (Tape edge)			
<b>Criterion of ignition</b>										
<b>Smouldering Criteria</b>										
Unsafe escalating combustion	No		No		No		No			
Test assembly consumed	No		No		No		No			
Smoulders through thickness	No		No		No		No			
Smoulders more than 1 hour	No		No		No		No			
More than 50mm from source	No		No		No		No			
<b>Flaming criteria</b>										
Test assembly consumed	No		No		No		No			
Unsafe escalating combustion	No		No		No		No			
Burning through thickness or to the extremities	No		No		No		No			
Flaming for more than 120 seconds	No		No		No		No			
<b>Comments</b>										
Flaming ceased	0 Seconds		0 Seconds		0 Seconds		0 Seconds			
Sample glow ceased	-		-		-		-			
Smoke ceased	2 Seconds		2 Seconds		3 Seconds		3 Seconds			
Extent of damage (mm) Width / Length	27	14	16	14			25	17	25	17
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>				<b>Non Ignition</b>		<b>Non Ignition</b>	
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>										

## FLAMMABILITY TEST REPORT

### Test Results (Bottom of Mattress)

#### BS EN 597-1: 1995 Smouldering cigarette

Test number / position	1 (Upper surface of mattress)		2 (Upper surface of mattress)		1 (Tape edge)		2 (Tape edge)			
<b>Criterion of ignition</b>										
<b>Smouldering Criteria</b>										
Unsafe escalating combustion	No		No		No		No			
Test assembly consumed	No		No		No		No			
Smoulders through thickness	No		No		No		No			
Smoulders more than 1 hour	No		No		No		No			
More than 50mm from source	No		No		No		No			
<b>Flaming criteria</b>										
Occurrence of flames	No		No		No		No			
<b>Comments</b>										
Flaming ceased	-		-		-		-			
Sample glowing ceased	-		-		-		-			
Smoke ceased	< 18 Minutes		< 18 Minutes		< 18 Minutes		< 18 Minutes			
Extent of damage (mm) Width / Length	12	64	10	64			12	62	12	62
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>				<b>Non Ignition</b>		<b>Non Ignition</b>	
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>										

#### BS EN 597-2:1995 (Match Equivalent).

Test number / position	1 (Upper surface of mattress)		2 (Upper surface of mattress)		1 (Tape edge)		2 (Tape edge)			
<b>Criterion of ignition</b>										
<b>Smouldering Criteria</b>										
Unsafe escalating combustion	No		No		No		No			
Test assembly consumed	No		No		No		No			
Smoulders through thickness	No		No		No		No			
Smoulders more than 1 hour	No		No		No		No			
More than 50mm from source	No		No		No		No			
<b>Flaming criteria</b>										
Test assembly consumed	No		No		No		No			
Unsafe escalating combustion	No		No		No		No			
Burning through thickness or to the extremities	No		No		No		No			
Flaming for more than 120 seconds	No		No		No		No			
<b>Comments</b>										
Flaming ceased	0 Seconds		0 Seconds		0 Seconds		0 Seconds			
Sample glow ceased	-		-		-		-			
Smoke ceased	2 Seconds		2 Seconds		2 Seconds		2 Seconds			
Extent of damage (mm) Width / Length	18	14	17	15			30	25	24	20
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>				<b>Non Ignition</b>		<b>Non Ignition</b>	
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>										

## FLAMMABILITY TEST REPORT

### Test Specification

Test Method: BS 6807: 2006 Clause 9: (Ignition source 5) as required by  
BS 7177: 2008 + A1: 2011 Medium Hazard  
Ignition Source: BS 6807: 2006 Source 5: Pine wood crib size 5

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### Pre-treatment / Durability procedure

None

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### Conditioning

Prior to testing: At least 16 hours in an atmosphere having a temperature of  $23\pm 2^{\circ}\text{C}$  and a relative humidity of  $50\pm 5\%$   
At time of testing: Temperature between  $10^{\circ}\text{C}$  &  $30^{\circ}\text{C}$ . Relative humidity between 15% & 80%

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## FLAMMABILITY TEST REPORT

### Test Results

#### Ignition source 5 placed at position 5T (on top of the specimen)

Test Number	1		2	
<b>Criterion of ignition</b>				
<b>Smouldering Criteria</b>				
Unsafe escalating combustion	No		No	
Test assembly consumed	No		No	
Smoulders through thickness	No		No	
Smoulders more than 1 hour	No		No	
More than 100mm from source	No		No	
<b>Flaming criteria</b>				
Test assembly consumed	No		No	
Burning through thickness or to the extremities	No		No	
Flaming for more than 10 minutes	No		No	
Flaming debris causing isolated floor fire	No		No	
<b>Comments</b>				
Flaming ceased	3 Minutes	27 Seconds	4 Minutes	13 Seconds
Smoke ceased	5 Minutes	47 Seconds	7 Minutes	32 Seconds
Extent of damage in mm (Length / Width)	100	95	95	95
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>	
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>				

#### Ignition source 5 placed at position 5T (below the specimen)

Test Number	1		2	
<b>Criterion of ignition</b>				
<b>Smouldering Criteria</b>				
Unsafe escalating combustion	No		No	
Test assembly consumed	No		No	
Smoulders through thickness	No		No	
Smoulders more than 1 hour	No		No	
More than 100mm from source	No		No	
<b>Flaming criteria</b>				
Test assembly consumed	No		No	
Burning through thickness or to the extremities	No		No	
Flaming for more than 10 minutes	No		No	
Flaming debris causing isolated floor fire	No		No	
<b>Comments</b>				
Flaming ceased	3 Minutes	40 Seconds	4 Minutes	0 Seconds
Smoke ceased	6 Minutes	36 Seconds	7 Minutes	03 Seconds
Extent of damage in mm (Length / Width)	125	185	125	215
<b>Result (Ignition/Non Ignition)</b>	<b>Non Ignition</b>		<b>Non Ignition</b>	
<i>The above test results relate only to the ignitability of the combination of the materials under the particular conditions of test: they are not intended as a means of assessing the full potential fire hazard of the mattress, mattress pad or upholstered bed base in use.</i>				

### Conclusions

The sample meets the requirements of BS EN 597-1:1995 (Smouldering cigarette) **PASS**.

The sample meets the requirements of BS EN 597-2:1995 (Match equivalent) **PASS**.

The sample meets the requirements of BS 6807: 2006 Clause 9 (Ignition source 5). **PASS**

The sample meets the flammability performance requirements of BS 7177: 2008 + A1: 2011 Medium Hazard. **PASS**.

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