



Ministry
of Defence

Defence Equipment and Support
Secretariat
#2043 Maple 0a
Ministry of Defence
Abbey Wood
Bristol BS34 8JH



Email: DES SEC-PolSec LE-JSC-WPNS@mod.gov.uk

Our Reference:
FOI2021/15483
Date: 14 January 2022

Dear [REDACTED],

Thank you for your email of 16 December 2021 to the Ministry of Defence (MOD).

On 15 November 2021 you requested the following:

*the production date/year and month
the materials used for the products:*

Seyntex

*Vest, FR, AFV, Crews
Nato Stock No : 8415-99-458-7545
Size: M
DC1bESL/ 0034*

*Long Johns FR AFV Crewman's Olive FR
8415-99-458-7540
Size: Small
DC2CESL/31292*

You subsequently clarified your request, as follows:

I would like to clarify that I would like to know the calendar year.

I am trying to determine the approximate age of the beforementioned clothing, that is why knowing the approximate timeframe of the contract numbers. I would like to know the full timeframe, starting and end years.

As I also asked, I was interested if it was possible to determine what materials were used to make the products.

I would also want to make another request regarding the following item:

*WOMENS THERMAL LONG LEG PANTS
STYLE 20251
Customer code HO30*

Item code 4-453
Size XL

I would like to enquire, is there any way to know the production date of the desired clothing based on the information above. Is it also possible to know which branch/department etc. the clothing originated from? As far as I am aware, they are British surplus.

I have treated your correspondence as a request for information under the Freedom of Information Act 2000.

A search for the information has now been completed within the Ministry of Defence (MOD), and I can confirm that some of the information in scope of your request is held and is provided below. As advised to you in my letter dated 9 December 2021, Team Leidos purchases clothing on behalf of MOD and, although it does hold contracts with Seyntex, these do not cover the range of items listed in your FOI request. The answers to your questions are as follows:

1. THE PRODUCTION DATE/YEAR AND MONTH

For the first item (the vest), because of the passage of time, we are unable to confirm the date of manufacture; however, we are able to confirm that the Nato Stock Number (NSN) was created in December 2002, with a contract commencing in 2003 and the item became obsolete in 2016, having been manufactured by more than one supplier during that time.

For the second item (the long johns) we are unable to confirm a specific date of manufacture, but can confirm that they are still currently supplied to the UK armed forces.

2. THE MATERIALS USED FOR THE PRODUCTS

Vest, FR, AFV, Crews
Nato Stock No (NSN) : 8415-99-458-7545
Size: M
DC1bESL/ 0034

The NSN 8415-99-458-7545 composition was:

Inherently flame retardant fibres with 2% non-conductive fibre. Pattern D00357A.

This NSN lies within the range of 8415-99-458-**7544 to 7547**. Please note this is the OLIVE version of the vest and the decision to make this entire range obsolete was sanctioned by Army HQ in 2013, and officially logged as no longer in use on 14 July 2016.

Long Johns FR AFV Crewman's Olive FR
8415-99-458-7540
Size: Small
DC2CESL/31292

The NSN 8415-99-458-7540 composition is :

Inherently flame retardant fibres with 2% non-conductive fibre.

The specification for the long johns is attached as Annex A to this letter.

**3. WOMENS THERMAL LONG LEG PANTS
STYLE 20251
Customer code HO30
Item code 4-453
Size XL**

Team Leidos advise that despite a thorough search of their records it has been unable to locate the Womens' Thermal Long Leg Pants item as described. If you are able to provide additional information such as the NSN number or MOD contract number I will be pleased to make further enquiries accordingly.

If you have any queries regarding the content of this letter, please contact this office in the first instance.

If you wish to complain about the handling of your request, or the content of this response, you can request an independent internal review by contacting the Information Rights Compliance team, Ground Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail CIO-FOI-IR@mod.gov.uk). Please note that any request for an internal review should be made within 40 working days of the date of this response.

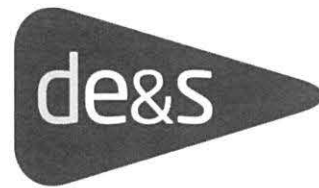
If you remain dissatisfied following an internal review, you may raise your complaint directly to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not normally investigate your case until the MOD internal review process has been completed. The Information Commissioner can be contacted at: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website at <https://ico.org.uk/>.

Yours sincerely,

[REDACTED]

[REDACTED]

DE&S Secretariat PolSec 2 Asst Hd



**Manufacturing Specification for
LONG JOHNS
FR, AFV Crewman's**

Defence Clothing (DC)

PROPERTY OF
MINISTRY OF DEFENCE

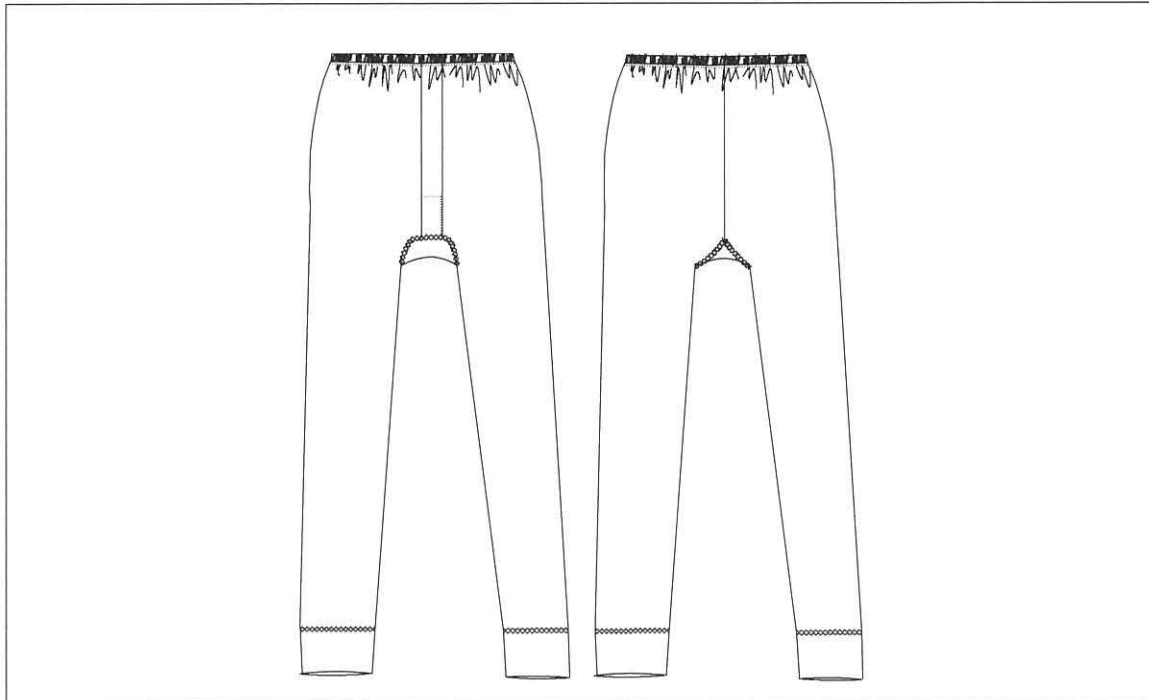
Defence Equipment & Support



PRODUCT

Item Description	NATO Stock No.(s)	Pattern No.
LONG JOHNS, FR, AFV Crewman's Olive	8415-99-458-7540 to 7543	D00356A

Technical Support	Defence Clothing
-------------------	------------------



Any colour shown in this document is for representation and must not be used for colour matching.

IPR STATEMENT

~~This specification contains information which is proprietary to the Secretary of State for Defence and shall remain the property of the Secretary of State. It is issued in strict confidence and must not be seen by any unauthorised person. The specification is supplied solely for the purpose of Information/Tender/Contract and shall not be copied or reproduced or used for any other purpose whatsoever without the express prior written permission of the Secretary of State as represented by the Intellectual property rights group.~~

Technical documents in this specification refer to the edition current at the date of tender or contract unless otherwise stated.

CROWN COPYRIGHT RESERVED

1. ISSUE RECORD

Issue No.	Comments	Date
7	Removal of the reference to DC manual Removal of Beige 8415-99-364-0886 to 0889 as obsolete Thread updated to Flame Resistant TL Numbers added	22 March 2021
6	Fibre content labelling clause added Care label updated BS EN ISO 6330:2012 requirements updated	29 August 2012
5	Updated size schedule	09 February 2010
4	Format updated Pattern number updated Removal of Pattern Piece Index Reference to IPT deleted FR method of test updated Fibre type changed from 'aramid' to 'inherent FR' Beige shade introduced	28 September 2009
3	Amendments to sizing schedule and detail for. Fly front and waist	28 November 2005
2	Technical data Sheets incorporated at Section 7	23 November 2005
1	New specification derived from UK/SC/5903 Issue 2	27 May 04

2. BILL OF MATERIALS

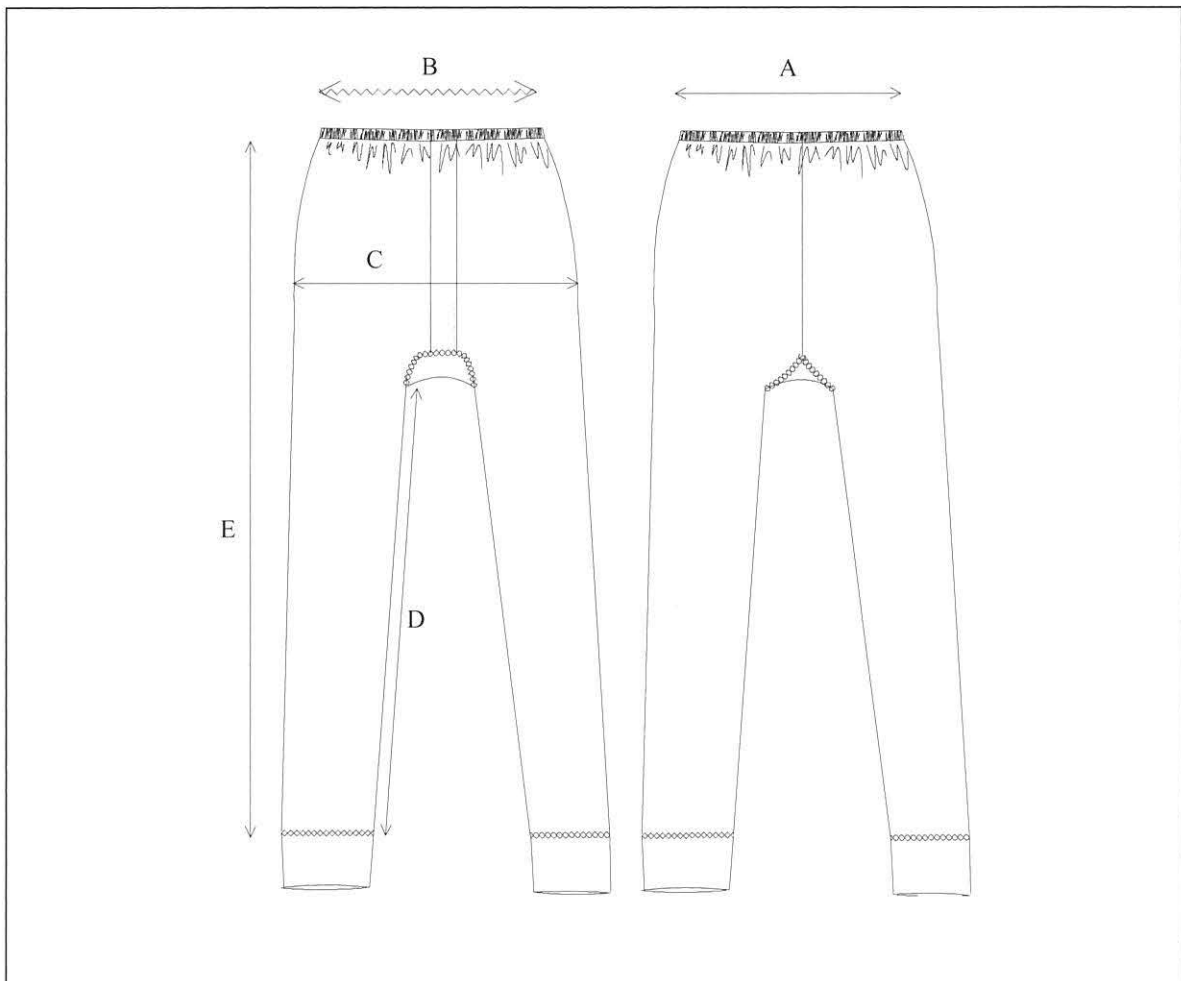
Refer to Technical data Sheets at Section 7.

3. PATTERNS

- a. Master Patterns. DC holds a Master Pattern for this product. Potential contractors may view the pattern on site by arrangement with DC Commercial Department.
- b. Standard Patterns. A Standard Pattern may be obtained from DC Technical Information Office and may be used to provide the criteria for all materials, components and manufacturing features not fully defined in this specification.
- c. Electronic Patterns. Electronic patterns in 'Gerber®' format, to guide for manufacture may be obtained from the DC Technical Information Office.

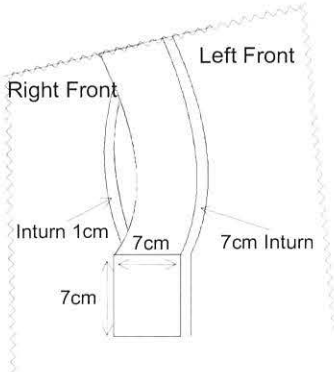
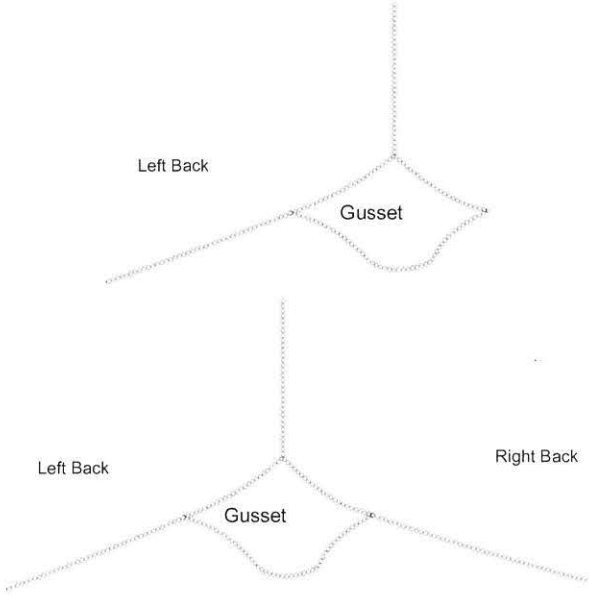
4. GARMENT SIZING. All measurements in centimeters: Garment laid flat

SIZE	Waist		Hip 20cm Down From Top Of Waist	Inside Leg	Leg Seam	Elastic Cut Length
	Stretched	Relaxed		Measured to cuff seam		
	A	B	C	D	E	
SMALL	55	29	54	59	94	66
MEDIUM	59	33	58	64	100	70
LARGE	63	37	62	69	108	74
X LARGE	67	41	66	74	112	78
Tolerance ±	1	1	1	1	2	1

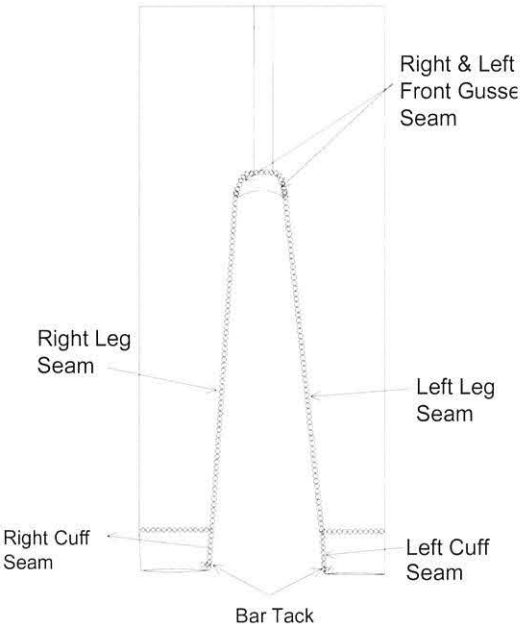
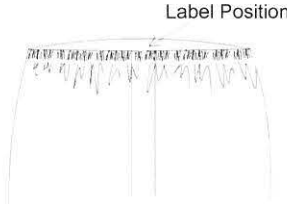


5. CONSTRUCTION

SEAMS AND STITCHING to BS 3870	
<ul style="list-style-type: none"> • All seams are to be 502, 503, 504, 505, 506 or 606 • 8-10 stitches per 2cm, with a minimum 4mm bite and be correctly tensioned. • The stitching is to be regular and unbroken. • All raw edges are to be overedge stitched • Waistband to be stitch type 301 	

PART	DETAIL	BS 3870
<p>5.1 FLY FRONT</p> 	<ul style="list-style-type: none"> • Right centre front over edged inturn of 1cm • Left centre front inturn 7cm creating the fly • At bottom of fly, a sewn box of 7cm by 7cm secures the left front to the right front 	<p>301</p> <p>503</p>
<p>5.2 GUSSET, & BACK SEAMS</p> 	<ul style="list-style-type: none"> • Attach the gusset to left back • Attach left and right centre backs together • Continue down to attach right side of gusset 	<p>503</p>

5. CONSTRUCTION continued

PART	DETAIL	BS 3870
<p>5.3 LEG CUFF & SEAMS</p>  <p>The diagram shows a pair of trousers with labels for various seams: 'Right & Left Front Gusset Seam' at the top, 'Right Leg Seam' and 'Left Leg Seam' on the sides, 'Right Cuff Seam' and 'Left Cuff Seam' at the bottom, and 'Bar Tack' at the very bottom center.</p>	<ul style="list-style-type: none"> • Leg cuffs: 2 ply main material folded • Cuff is to finish 9cm deep • Attach cuffs left and right legs • Assemble leg and gusset seams • Bar tack bottom edge of cuffs 	<p>606</p>
<p>5.4 WAIST</p>  <p>The diagram shows the waistband area with a label positioned at the center back, indicated by a dashed line and the text 'Label Position'.</p>	<ul style="list-style-type: none"> • Grown on waistband, 5cm wide • Label is to be tacked in at centre back seam • Insert elastic and catch in label. See section 4 of this specification for elastic cut lengths 	<p>503</p>

6. LABELLING REQUIREMENTS

Labels	Colour	Position
Identification and care labels	Olive for olive	Attached in waist, at centre back

Washcare and identification labels may be combined to produce one label

Identification Label

Information and format is to be as follows:

The main material fibre content is to be added to the identification label.


For stock sizes

Item name, NATO Stock Number, size, broad arrow, contract number, indication of position for wearer's name and number. The size number is to be 0.6cm high.

SPECIMEN LABELS

Identification Labels

Stock size

LONG JOHNS, FR, AFV Crewman's	
Olive FR.	
8415-99-458-7541*	
Size: MEDIUM*	
Contract No.	
Name:	
No:	
<i>(Fibre content to be added here)</i>	

*Amend as appropriate for end item

6. LABELLING REQUIREMENTS continued

Care Label (1)

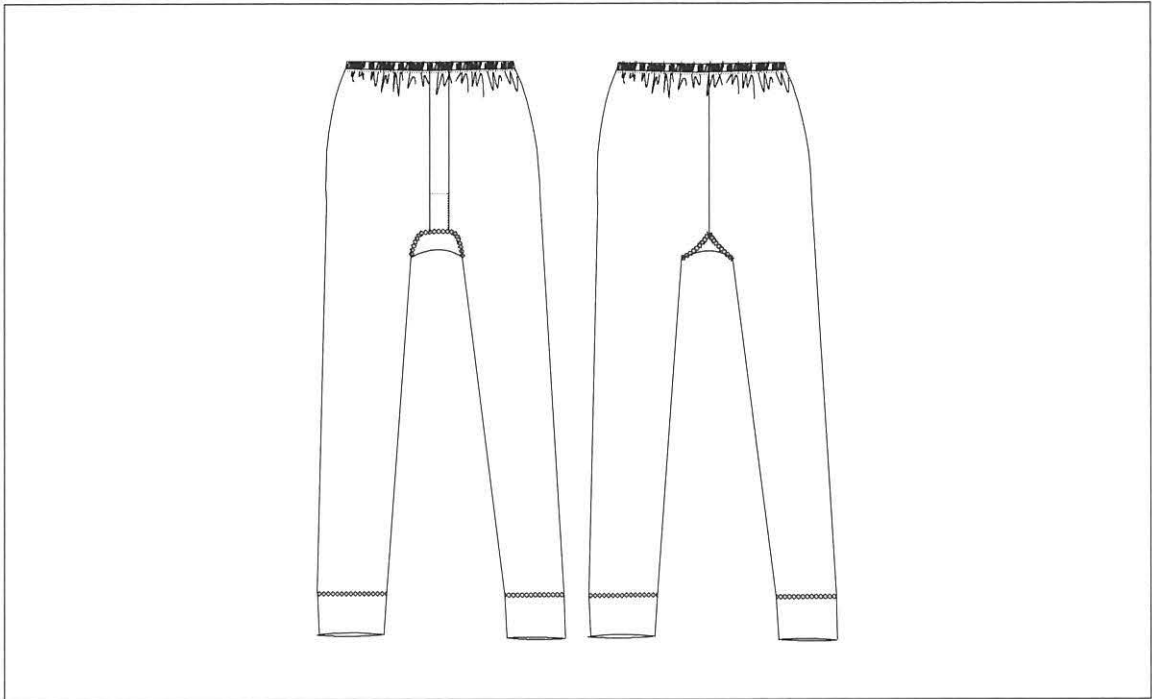
	Wash as synthetics
	DO NOT BLEACH
	Tumble dry at lower heat setting
	Warm Iron
	DO NOT DRY CLEAN
<p>This garment is flame retardant. It is important to keep clean as a build up of oil and grease may reduce its flame resistance.</p>	

Note 1 – Amend details as appropriate to fibre type

TL Numbers, NATO Stock Numbers and Size

TL Number	Olive	Size
TL1038672	8415-99-458-7540	SMALL
TL1038673	8415-99-458-7541	MEDIUM
TL1038674	8415-99-458-7542	LARGE
TL1038675	8415-99-458-7543	X LARGE

7. TECHNICAL DATA SHEETS



Long Johns, FR, AFV Crewman's

Specification No.	DC/MS/5903
Item Description	LONG JOHNS, FR AFV CREWMAN'S
	Olive
Pattern No.	D00356A
NATO Stock No.	8415-99-458-7540 TO 7543
SCOPE: Long johns made from a knitted inherently flame retardant fabric. Part of the Armoured Fighting Vehicle Crew suit	

Related Specifications	Title
BS EN ISO 3758	Textiles. Care labelling code using symbols
BS EN ISO 5077	Textiles. Determination of dimensional change in washing and drying
BS EN ISO 6330	Textiles. Domestic washing and drying procedures for textile testing
BS EN ISO 14116	Protective clothing. Protection against heat and flame. Limited flame spread materials, material assemblies and clothing.

7. TECHNICAL DATA SHEETS continued

Related Specifications	Title
BS EN 12127	Textiles. Fabrics. Determination of mass per unit area using small samples
BS EN 12590	Textiles. Industrial sewing threads made wholly or partly from synthetic fibres
BS 3870 Part 1 Part 2	Stitches and seams Classification and terminology of stitch type Classification and terminology of seam type
BS 5742	Specification for textile labels requiring to be washed and / or dry cleaned
BS 7141 Part 5	Narrow Fabrics. Specification for elastic flat braids containing natural rubber

BILL OF MATERIALS

Fabric		
Reference	Description	NATO Stock No.
To Tables 1 and 2	MAIN MATERIAL Olive	N/A

Components	Size/Colour	Reference/Description	Notes/NATO Stock No.
Elastic	20mm Olive	Elastic Colour to match main material	To BS 7141 Part 5 Ref. No. 2
Threads	Colour to match main material 75	Flame resistant ALL PURPOSES	To BS EN 12590
Labels	Olive or white	Refer to Para 6 for detail	BS 5742 Paragraph 3 and BS EN ISO 3758

TABLE 1- MATERIAL CONSTRUCTION

Fibres	<ul style="list-style-type: none"> Inherently Flame retardant fibres with 2% non conductive fibre
Yarns	<ul style="list-style-type: none"> Manufactured from staple fibres To match handle and drape of the Standard pattern garment
Main material	<ul style="list-style-type: none"> Double jersey knitted interlock (18 gauge jersey has been found to be suitable)

TABLE 2 – PHYSICAL PERFORMANCE REQUIREMENTS OF FABRIC

METHOD OF TEST		
BS EN 12127	BS EN ISO 5077	BS EN ISO 14116
Mass	Dimensional Stability (1)	Limited Flame Spread (2)
g/m ²	%	
min	max	
280	1	Level 3

Note 1: After 1 wash/dry cycle to BS EN ISO 6330, Process 4M Drying Procedure F (low)

Note 2: After washing as for dimensional stability