

# Wool Serge 1.8

Perfect For: Masking • Decorative/Scenic • Film & TV • Stage • Acoustics



**J&C Joel** 

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# Contents

## Composition & Care

180 cm 3

## Fire Certificate

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## TECHNICAL



NDFR

### Non Durably Flame Retardant

chemically treated with a water solution and if wetted in any way should be retreated



DFR

### Durably Flame Retardant

chemically treated to withstand a number of cleanings



IFR

### Inherently Flame Retardant

woven from fibres with a high flame retardancy



FR

### Flame Retardant

chemically treated to an individual specification



NOT FR

**Not Flame Retardant** no flame retardant treatment



Confirmation that the fabric meets one or more flame retardant standards

**BS5867** BS5867 Pt2 B is the British Standard for flame retardant fabrics used for curtains and drapes

**BS5852** BS5852 Pt1 is the British Standard for flammability of upholstered composites for seating

**BS4790** BS4790: 1987 Determination of the effects of a small source of ignition on textile floor coverings hot metal nut method (method 1, loose laid)

**EN13773: 2003** Meets European fire safety standards for vertically hung fabrics. Burning behavior, ignitability testing of curtain fabric for use in the contract market.

**TL 1080-0002/8** German Military Specification for horizontally tested materials

**EN14041** Details the requirement for CE Marking of textiles, laminate and resilient floor coverings

**BS7905-1:2001** Lifting equipment for performance, broadcast and similar applications.

## ATTRIBUTES



Approx roll length of material in linear metres (m) & feet (ft)



Approx width of material in centimetres (cm) & inches (")



Approx weight in grams per metre squared (g/m<sup>2</sup>)



Approx thickness in (mm)

**M1, M2, M4** Conforms to French Fire Regulations

**B1, B2** Conforms to German Fire Regulations DIN 4102

**IMO** Conforms to International Maritime Organisation regulations

**Classe Uno** Meets Italian Fire Regulations

**BS EN13501-1** Fire Classification of construction, products and building elements. Classification using test data from reaction to fire tests







**CFC EN ISO 9239-1** Reaction to fire test. Horizontal surface spread of flame on floor covering system. Determination of the burning behaviour using a retardant heat source

**NFPA 701** NFPA 701: (USA) Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

**EN9239-1** Reaction to fire tests – horizontal surface spread of flame on floor covering systems

**DIN EN1021** Meets European fire safety standards for exposure to different ignition sources, namely a lit cigarette and butane flame. Assessment of the ignitability of upholstered furniture

To ensure you get the best from the product supplied to you, we advise you follow the care instructions within this datasheet.

Fabric	Flame Retardancy	IFR
	Fire Certification	BS5867, NFPA 701, IMO, AS1530.2/3
	Brand Name (and Manufacturer)	J&C Joel Ltd.
	Material (Blending Ratio)	95% Wool 5% Nylon & Other Fibres
	Construction of Fabric	Plain Weave • Yarn Count: Heavy • Ends/Picks: Medium Density
	Method of Dying	Fibre Dyed
Chemicals	Brand Name of Flame Retardant Chemicals	N/A
	Chemical name of Flame Retardant Chemicals	N/A
	Process of Flame Retardant Chemicals	N/A
Care	Information	<p>Inherently Flame Retardant to BS5867 Part 2 Type B, NFPA 701, IMO and AS1530.2/3. This means that the man-made fibres are flame retardant for life and if wet, would not need to be re-flameproofed. Therefore, the cloth will withstand wet cleaning but we would advise and suggest professional dry cleaning only, using the correct chemical process.</p> <p>Notwithstanding the aforementioned, it would be our advice to only dry clean this material periodically. We would suggest that the curtain be soft-brushed on a regular basis and periodically cleaned using a vacuum and drapery attachment.</p> <p>This fabric is not pre-shrunk.</p>
	Laundering Treatment	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Dry Clean Only</div> <div style="text-align: center;"> Do Not Wash</div> <div style="text-align: center;"> Do Not Bleach</div> <div style="text-align: center;"> Do Not Iron</div> <div style="text-align: center;"> Do Not Tumble Dry</div> </div>
Other Finishes	Pressed, Blown Finish	
Other Information	 Recycled Wool Materials	



Fire Rating:  
IFR



Approx Roll Length:  
57m / 187ft



Width:  
180cm / 71"



Weight:  
500 g/m<sup>2</sup>



Fire Certification:  
BS5867, NFPA 701,  
IMO, AS1530.2/3



Colours  
Available



Fabric Thickness:  
\*1.40mm

\*FABRIC THICKNESS Measured in-house with digital callipers, not under laboratory conditions.

For further information please contact our sales team [sales@jcjoel.com](mailto:sales@jcjoel.com)

# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** BS5867 Part 2 Type B

**J&C Joel**   
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Leeds, LS16 6QL, UK.  
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Email: [info@bttg.co.uk](mailto:info@bttg.co.uk)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 15 August 2017  
Our Ref: 53651-50  
Your Ref: -  
Page: 1 of 4

Client: J. & C. Joel Limited  
Corporation Mill  
Corporation Street  
Sowerby Bridge  
Halifax  
HX6 2QQ

Job Title: Surface Ignition Of Curtains & Drapes

Client's Order No: -

Date of Receipt: 16 June 2017  
Date of Test Start: 29 June 2017

Description of Sample(s): One sample identified as follows was received for testing:  
Premier Wool Serge, stated to be IFR

Work Requested: We were asked to make the following test:  
BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds



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# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** BS5867 Part 2 Type B



TESTING • CERTIFICATION • AUDITING

J. & C. Joel Limited

Sample was identified as follows:

Premier Wool Serge, stated to be IFR

Wira House, West Park Ring Road,  
Leeds, LS16 6QL, UK.  
Telephone: +44 (0)113 259 1999  
Email: [info@bttg.co.uk](mailto:info@bttg.co.uk)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 15 August 2017  
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BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds  
Testing as received.

Three specimens from both length and width were tested in accordance with BS EN ISO 15025: Procedure A (surface ignition): 2002. The sample was tested at 20 °C and 60 % relative humidity (R.H.).

Each specimen was subjected to an applied flame using propane and a 15 second flame application time. The results obtained (shown in the table below) were assessed according to the requirements of BS 5867: Part 2: 2008 (2015).

Pre-treatment


If the fabric is a pass in the 'as received' condition then the fabric is subjected a water soak procedure as specified in BS EN 1021: Annex D: 2006.

Testing after pre-treatment

Three specimens, after pre-treatment, from both length and width were tested following the procedure described above.

Test results relate only to the sample tested.

The results for all tests are given in the table(s) on the following page(s).

Reported by:   
J Coleman  
Fire Technician

Countersigned By:   
P Doherty  
Operational Head

Enquiries concerning this report should be addressed to Customer Services.



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# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** BS5867 Part 2 Type B



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J. & C. Joel Limited

**RESULTS**

Sample Ref: Premier Wool Serge, stated to be IFR

Wira House, West Park Ring Road,  
 Leeds, LS16 6QL, UK.  
 Telephone: +44 (0)113 259 1999  
 Email: [info@bttg.co.uk](mailto:info@bttg.co.uk)  
 Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 15 August 2017  
 Our Ref: 53651-50  
 Your Ref: -  
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BS 5867: Part 2: 2008 (2015): Type B Curtains, Drapes and Blinds  
 Testing as Received

Specimen No.	Length				Width	
	1	2	3	4	5	6
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris separated	No	No	No	No	No	No

**Requirements**

Any "Yes" means fail except if only one specimen fails a further 6 specimens are tested, if the second 6 specimens all pass the result is a pass.

Result in 'as received': Pass

Testing after pre-treatment

Specimen No.	Length				Width	
	1	2	3	4	5	6
Flame reached an edge	No	No	No	No	No	No
Hole reached an edge	No	No	No	No	No	No
Flaming debris separated	No	No	No	No	No	No

**Requirements**

Any "Yes" means fail except if only one specimen fails a further 6 specimens are tested, if the second 6 specimens all pass the result is a pass.

Result in 'after pre-treatment': Pass



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# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** BS5867 Part 2 Type B

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J. & C. Joel Limited

### Conclusion

The fabric meets the Type B performance requirements of BS 5867: Part 2: 2008 (2015).

This material should be identified with the manufacturers name, trademark or other identifying mark, the statement 'Flammability complies with the requirements of BS 5867: Part 2: Type B and instructions of any special precautions to be taken concerning care (including cleansing) of the curtain, drape or window blind to be manufactured from the fabric, preferably using an appropriate care labelling symbol in accordance with BS EN 23758 and taking account of the pre-treatment using in this test and the requirements of Clause 4 of BS 5867: Part 2: 2008 (2015). If the fabric is unsuitable for cleansing, this shall be stated.

### Uncertainty Budget

There is no uncertainty budget associated with BS 5867: Part 2: Type B as no measurements are determined, the pass/fail criteria is assessed visually.

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Leeds, LS16 6QL, UK.  
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Website: [www.btg.co.uk](http://www.btg.co.uk)

Date: 15 August 2017  
Our Ref: 53651-50  
Your Ref: -  
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SPECIMEN



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# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** IMO

## CERTIFICATE



Gort Flameproofing Services

### J & C Joel Ltd

Corporation Mill  
Corporation Street  
Sowerby Bridge  
Halifax  
HX6 2QQ

<b>Date</b>	03/07/2017
<b>Fabric</b>	Premier Black Wool Serge
<b>Length</b>	0.25 metres

<b>Certificate No.</b>	2819-S
<b>Order No.</b>	

We have carried out tests on a sample of the above material and the results from our in-house test gave a satisfactory PASS to:

BS 5867 : Part 2 : 2008, Type B, Clause 4.1 (Note)  
(Tested for face burn and edge burn)

Fabric tested by Gort Services Ltd will meet the requirements of the FTP CODE INTERNATIONAL MARITIME ORGANIZATION I.M.O. FTPC part 7 Recommendation on fire test procedures for vertically hanging structures. Our indicative tests confirm that this standard has been maintained for the above fabric.

Cleaning and maintenance of the fabric should be carried out as per the instructions of the fabric supplier.

For J E Talbot B.Sc  
(Head of Testing)



# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** AS 1530.2

## AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106  
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

### TEST REPORT

**Client :** J & C Joel Ltd  
Corporation Mill, Corporation Street  
Sowerby Bridge, Halifax, HX6 2QQ  
ENGLAND

**Test Number :** 18-006061  
**Issue Date :** 23/10/2018  
**Print Date :** 16/05/2019

**Sample Description** Clients Ref : "WS180"  
Milled woven fabric  
Nominal Composition : 100% Wool  
Nominal Mass per Unit Area/Density : 500g/m2  
Nominal Thickness : Approx: 2mm

AS 1530.2-1993

#### Methods for Fire Tests on Building Materials, Components and Structures. Part 2: Test for Flammability of Materials

Date Tested	23/10/2018	
Flammability Index	3	
	Length	Width
Spread Factor	1	2
Heat Factor	1	1
Maximum height (d)		
Mean	3.3	3.8
Coefficient of Variation	7.7	6.7 %
Heat (a)		
Mean	2.1	2.1 °C.min
Coefficient of Variation	18.8	18.1 %
Number of Specimens Tested	6	6
Observation	Visible smoke	

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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APPROVED SIGNATORY

  
MICHAEL A. JACKSON B.Sc (Hons)  
MANAGING DIRECTOR

# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** AS/NZS 1530.3

## AWTA PRODUCT TESTING

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P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

### TEST REPORT

**Client :** J & C Joel Ltd  
Corporation Mill, Corporation Street  
Sowerby Bridge, Halifax, HX6 2QQ  
ENGLAND

**Test Number :** 18-006062  
**Issue Date :** 14/11/2018  
**Print Date :** 16/05/2019

**Sample Description** Clients Ref : "WS180"  
Milled woven fabric  
Nominal Composition : 100% Wool  
Nominal Mass per Unit Area/Density : 500g/m2  
Nominal Thickness : Approx: 2mm

AS/NZS 1530.3-1999

#### Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested: Face  
Date tested: 13/11/2018

	Standard Error	Mean
Ignition time	0.25	2.90 min
Flame propagation time	Nil	Nil sec
Heat release integral	3.1	23.2 kJ/m <sup>2</sup>
Smoke release, log d	0.0699	-1.1179
Optical density, d		0.1047 / metre
Number of specimens ignited:		0
No of samples which ignited		5
No of samples which did not ignite		4
Number of specimens tested:		9
Regulatory Indices:		
Ignitability Index		17 Range 0-20
Spread of Flame Index		0 Range 0-10
Heat Evolved Index		0 Range 0-10
Smoke Developed Index		4 Range 0-10

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MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

# Fire Test Certificate – Specimen

**Fabric:** Wool Serge 1.8  
**Type:** AS/NZS 1530.3

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### TEST REPORT

**Client :** J & C Joel Ltd  
Corporation Mill, Corporation Street  
Sowerby Bridge, Halifax, HX6 2QQ  
ENGLAND

**Test Number :** 18-006062  
**Issue Date :** 14/11/2018  
**Print Date :** 16/05/2019

These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

The specimens were mounted to simulate use in an unsupported or free hanging mode. The results may be significantly different when mounted to simulate a wall cladding or upholstery application.

To allow free movement of sample during testing all corners were folded away from the clamps.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions, stapled through at four points, each 100mm from the centre of the sample and the assembly clamped in four places.

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MANAGING DIRECTOR

# J&C Joel

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