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

Date: 01 May 2026

Our Ref: 23/64660/04/26
Your Ref: ---

Client: **Gabriel A/S**

Hjulmagerve 55
DK-900 Aalborg
Denmark

Job Title: Various Tests on One Fabric Sample

Clients Order Ref: ---

Date of Receipt: 02 April 2026

Description of Sample: One sample of fabric, which was referenced by the client as;

Art. 2619/2620 - Savak

Work Requested: We were asked to test the received sample to the following standard:

BS EN ISO 12947-2
BS EN ISO 105 D02***
BS EN ISO 105 X12 – foam detergent
BS EN ISO 105 E16***

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited

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Note: This report relates only to the items tested.

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Abrasion Resistance Test: BS EN ISO 12947-2: 2016 12kPa pressure

Date of test: 28/04/26

Conditioning

Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005 + A1:2011) of 65±4% r.h. and 20±2°C.

Colour Change

Colour change grade at the number of rubs shown. Colour change grades range from 5 (no change) to 1 (severe change).

No. rubs	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Overall Result
3000	4-5	4-5	4-5	4-5	4-5

Specimen breakdown

Rubs to specimen breakdown (end point) observed using a magnification of approximately 10x. The overall result is the lowest individual result obtained during testing.

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Overall Result
No. rubs	>100,000	>100,000	>100,000	>100,000	>100,000
End point type	End point not reached	End point not reached	End point not reached	End point not reached	

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Colour Fastness to Rubbing with Organic Solvents (ISO 105-D02:2016) ***

Date of test: 30/04/26

The sample was tested in accordance with BS EN ISO 105-D02:2016 using perchloroethylene and white spirit as the solvents.

The change of colour of the specimens and the staining of the cotton rubbing fabric were assessed using standard grey scales; 5 represents no change of colour or staining and 1 a severe change of colour or staining.

Direction	Solvent	Change of colour	Staining of rubbing fabric
Specimen 1			
warp	perchloroethylene	5	4-5
weft		5	4-5
Specimen 2			
warp	perchloroethylene	5	4-5
weft		5	4-5

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Colour Fastness to Rubbing, BS EN ISO 105- X12:2016 -Using foam detergent

Date of test: 30/04/26

Specimens from each direction of the sample were tested for both wet and dry rubbing using a cylindrical rubbing finger exerting a downward force of 9N. The staining of the cotton rubbing fabric was visually assessed using grey scales for assessing staining; 5 represents no staining and 1 represents severe staining. The values obtained are given below.

Conditioning

Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005 + A1:2011) of 65±4% r.h. and 20±2°C.

Results

Colour Fastness to Rubbing using foam detergent (grade)	
Warp / Length	**Weft / Width**
4-5	5

Colour Fastness to Dry Rubbing (grade)	
Warp / Length	**Weft / Width**
4-5	5

Colour Fastness to Water Spotting on Upholstery Fabrics (***)

Date of test: 29/04/26

The sample was tested in accordance with BS EN ISO 105-E16:2007(2015).

Inner circle grade	Outer periphery grade	Water absorbed After 30 mins
4-5	4-5	none

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Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (https://www.bttg.co.uk/about-us/decision-rules-policy/) for further information.

Reported by:..... K Marshall, Section Leader

Countersigned by:..... J Brewster, Section Leader

Enquiries concerning this report should be addressed to Customer Services.

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Uncertainty Budget

The overall uncertainty budget for BS EN ISO 12947-2 is as follows:-

Specimen breakdown

± 20 %

Shade change

± 0.5 Grade

The overall uncertainty budget for BS EN ISO 105-D02 is as follows:-

Overall uncertainty ±0.5 Grade

The overall uncertainty budget for BS EN ISO 105-X12 is as follows:-

Overall uncertainty ±0.5 Grade

The overall uncertainty budget for BS EN ISO 105-E16 is as follows:-

Overall uncertainty ±0.5 Grade

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