



## Bangladesh Accreditation Board (BAB)

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# Certificate of Accreditation

This is to certify that

**SGS Bangladesh Limited**

**Noor Tower, 110 Bir Uttam C. R. Datta Road,  
Dhaka-1205, Bangladesh**

has been granted accreditation in respect of the scope of accreditation described in the attached document, subject to the terms and conditions governing the relevant Conformity Assessment Body (CAB) accreditation

This Testing Laboratory having met the requirements of ISO/IEC 17025:2005 and the BAB, is accredited for Textile Testing as described in the associated Scope of Accreditation.



**Certificate Number : 01.003.12**

**Issued on : 14 January 2015**

**Accreditation Date : 04 November 2012**

**Valid until : 13 January 2018**

**Director General**

**Bangladesh Accreditation Board (BAB)**


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## SCOPE OF ACCREDITATION

<b>CAB Name &amp; Address:</b>	<b>SGS Bangladesh Ltd.; Noor Tower, 2<sup>nd</sup>, 6<sup>th</sup> – 9<sup>th</sup>, 13<sup>th</sup> floor; 110 Bir Uttam CR Datta Road; Dhaka – 1205</b>		
<b>Accreditation Standard:</b>	<b>ISO / IEC 17025: 2005</b>	<b>Accreditation Date:</b>	<b>04 Nov 2012</b>
<b>Certificate Number:</b>	<b>01.003.12</b>	<b>Issued on:</b>	<b>12 August 2015</b>
<b>Last Amended on;</b>	<b>N/A</b>	<b>Valid until:</b>	<b>11 August 2018</b>

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>Field: Mechanical</b>				
1	Textile, Garments and Accessories	Breaking Strength and Elongation (Grab Test)	ASTM D 5034 : 2009 ISO 13934-2 : 2014 BS EN ISO 13934-2 :2014 CAN/CGSB 4.2 No. 9.2 M-90 AS 2001.2.3.2 : 2001	10 N to 5000 N
		Breaking Force and Elongation (Strip Method)	ASTM D 5035: 2011, BS 2576 : 1986 ISO 13934-1 : 2013, BS EN ISO 13934-1: 2013, CAN/CGSB 4.2 No. 9.1- M 90, AS 2001.2.3.1 : 2001	10 N to 5000 N
2	Textile, Garments and Accessories	Tensile Properties of Yarns Single-Strand Method	ASTM D 2256 : 2010, BS EN ISO 2062 : 2009, ISO 2062 : 2009 DIN EN ISO 2062:2010	1 N – 500 N
3	Textile, Garments and Accessories	Bursting strength –Diaphragm –Pneumatic	ASTM D 3786/D 3786 : 2013, BS 4768 :1972, ISO 13938-1 :1999 BS EN ISO 13938-1 : 1999, CAN/CGSB 4.2 No.11.1:1994, BS EN ISO 13938-2:1999, ISO 13938-2 :1999	5 PSI to 200 PSI
		Bursting strength Ball Bursting	ASTM D 3787 - 07 (Re- 2011) CAN/CGSB 4.2 No.11.2 - M 89	
4	Textile, Garments and Accessories	Seam Properties Seam Slippage	BS 3320–1988, ISO 13936-1 :2004 BS EN ISO 13936-1 : 2004, ISO 13936-2 :2004, BS EN ISO 13936-2 : 2004, AS 2001.2.22: 2006, ASTM D434:1995	10 N to 5000 N
		Seam Properties Seam Strength	ISO 13935-1 :2014, BS EN ISO 13935-1 : 2014, ISO 13935-2 :2014 BS EN ISO 13935-2 : 2014, ASTM D 1683-2011, AS 2001.2.20: 2004	

  
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**Accreditation Standard:** ISO / IEC 17025: 2005

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
5	Textile, Garments and Accessories	Tearing strength of Fabrics (Elmendorf)	ISO 13936-1/2:2004, BS 3320-1988 ASTM D 1424 – 2009, ISO 13937-1 : 2000 (Cor1:04), DIN/ BS EN ISO 13937-1: 2000, AS 2001.2.8 : 2001, CAN/CGSB-4.2 NO.12.3: 2005, DIN/BS EN ISO 4674-2:1998,	1 N – 300 N
		Tearing strength of Fabrics ( Single Rip)	ASTM D 2261 : 2013, BS 4303 – 1968 ISO 13937-2 : 2000 , BS EN ISO 13937-2 : 2000, ISO 13937-3 : 2000 BS EN ISO 13937-3 : 2000, ISO 4674-1 :1998	1 N to 5000 N
		Tearing strength of Fabrics (Double tear)	ISO 13937-4 : 2000	1 N to 5000 N
6	Textile, Garments and Accessories	Abrasion resistance (Martindale)	ISO 12947 – 1/2/3/4 : 1998/ Cor.1 2002, DIN/BS EN ISO 12947 1/2/3/4:2007, BS 5690 – 1991, ASTM D 4966- 2012 AATCC 93:2011	1 to 5 Grade 1 to 50%
		Abrasion resistance (Accelerator)		
7	Textile, Garments and Accessories	Pilling Resistance (Pilling Box)	DIN EN ISO 12945-1 : 2001, BS EN ISO 12945-1 : 2001 , CAN/CGSB 4.2 No. 51.1: 1995,ISO 12945-1 : 2000, BS 5811- 1988	1 to 5 Grade
		Pilling resistance (Martindale)	ASTM D 4970 : 2010, DIN/BS EN ISO 12945-2 : 2000, ISO 12945-2 : 2000	
		Pilling resistance (Random Tumbler)	ASTM D 3512 :2010 CAN/CGSB 4.2 NO 51.2 M-87 ISO 12945-3 :2014	
8	Textile, Garments and Accessories	Yarn number based on short length specimens	ISO 7211/5 – 1984, BS 5441 – 1988, ASTM D 1907 – 2012, ISO 2060 - 1994 , BS EN ISO 2060 – 1995 BS 2865 :1984	1 – 200 Ne
9	Textile, Garments and	Mass per Unit Area of Fabric	ASTM D 3776/ D 3776 M – 2009a	1 GSM – 1000 GSM

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	Accessories		DIN / BS EN 12127 – 1998 ISO 3801 – 1977 AS 2001.2.13 – 1987 CAN/CGSB 4.2 No.5.1 - M 90 BS 2471 - 2005	
10	Textile, Garments and Accessories	Threads per Unit Length	ASTM D 3775 – 2012, DIN EN 1049-2 : 1994, BS EN 1049 – 2 : 1994, AS 2001.2.5 – 1991, ISO 7211/2 – 1984, CAN/CGSB 4.2 No.6 : 2013, ASTM D 3887 – 96 (2008), AS 2001.2.6 – 2001 CAN/CGSB 4.2 No.7 - M 88	1 to 500 per inch
11	Textile, Garments and Accessories	Stitch Density	ASTM D 3887-96 (2008) CAN/CGSB 4.2 No 7 M-88 AS 2001.2.6: 2001 BS 5441: 1988	1 to 500 per inch
12	Textile, Garments and Accessories	Crimp/ Take up of Yarn	ISO 7211/3:1984 BS ISO 7211/3: 1984 ASTM D 3883:2004 (Re 2012)	1 to 90%
13	Textile, Garments and Accessories	Fabric Thickness	ISO 5084: 1996, ASTM D 1777: 1996(Re 2011), DIN EN ISO 5084: 1996	0.01 to 11.00 mm
14	Textile, Garments and Accessories	Stitch Length & Yarn Linear Density	BS EN 14970: 2006	1 to 100 mm 1 – 200 Ne
15	Textile, Garments and Accessories	Cover factor	IN HOUSE (BD-TX-MC-SOP-025-01)	1 to 100
16	Textile, Garments and Accessories	Fabric width	ASTM D 3774-1996 (Re 2012), BS EN 1773: 97, AS 2001.2.12 - 1987 CAN/CGSB 4.2 No.4.1: 2008 ISO 22198: 2006	1 cm – 200 cm
17	Zipper	Zipper Strength	BS 3084:2006, ASTM D2061:2007, 16 CFR 1500.53, NFG 91-005, DIN 3419-1:1998, AS 2332:2003, ASTM D2051:2009, ASTM D 2057:2005, ASTM D2062	1 N to 5000 N

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
18	Button	Button Strength	:03 (Re 2009) BS 4162-1983	1 N to 500 N
19	Textile, Garments and Accessories	Impact Resistance of Plastic sew	ASTM D 5171 -2009 BS 4162:1983	Height 32 – 120 mm
20	Textile, Garments and Accessories	Flammability of General Clothing Textiles	CPSC 16 CFR PART-1610 : 2008 ASTM D 1230 – 2010, CAN/CGSB27.5 : 2008	1 sec. – 100 sec.
		Burning Behavior of Nightwear/ Children's Nightwear	EN/ BS EN 1103 – 2005, EN / BS EN 14878 – 2007, SI 1985No.2043 BS 5722 – 1991	1 sec. – 3600 sec.
		Burning Behavior – Measurement of flame spread properties of vertically oriented specimens	ISO 6941- 2003, BS 5438 – 1989, BS EN ISO 6941:2003	1 sec. – 3600 sec.
		Flammability of Children's Sleepwear	16 CFR 1615 / 1616 : 2010	0 - 254 mm (0-10inch)
21	Textile, Garments and Accessories	Resistance to Unsnapping of Snap Fastness	ASTM D 4846-1996 (Re2011)	0.1 lbf – 100 lbf
22	Textile, Garments and Accessories	Bonding Strength	ASTM D 2724-2007	0.5 lbf/in to 1000 lbf/in
23	Textile, Garments and Accessories	Lea Strength	ASTM D 1578 – 1993 (Re 2011)	(1 lbf – 1000 lbf)
24	Textile, Garments and Accessories	Stretch and Recovery / Tension and Elongation of Elastic Fabrics	ASTM D 4964-1996 (Re2012) BS 4952 –1992, ASTM D 2594-2004 (Re 2012), ASTM D 3107 2007 (Re2011), BS EN 14704-1 – 2005, BS 4294: 1968	1 to 500%
25	Textile, Garments and Accessories	Wrinkle/Crease recovery	AATCC 66 :2014, ISO 2313: 1972 BS EN 22313:1992, AATCC 128:2013 ISO 9867: 2009	1 to 180 Degree
26	Textile, Garments and Accessories	Attachment/Pull Off Strength of Snap/Button/Rivets	BS EN 71 Part-1 : 2014 BS 7907 : 2007 ASTM F 963 – 2011,	1 N – 3000 N

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
27	Textile, Garments and Accessories	Twist in Yarns (direct counting method )	16 CFR 1500.51-53 EN 71 Part-1 : 2014 ASTM D 6644: 2001(Re2013) ISO 2061 – 2010 DIN / BS EN ISO 2061-2010 ASTM D1423 – 2002 (Re2008) ISO 7211/4: 1984 BS 2864:1984	Up to 100 TPI
28	Textile, Garments and Accessories	Determination of twist in yarn removed from fabric	ISO 7211-4: 1984, BS 2864 - 1984	Up to 100 TPI
29	Textile, Garments and Accessories	Measurement of Bow & Skewness	ASTM D 3882: 2008 (Re2012)	Up to ± 50 cm
30	Textile, Garments, Toys products(Textile Metal Glass, Plastic, stone Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children	Small Parts – Choking Hazard Test ( Small part cylinder of 31.7 mm inner diameter)	16 CFR 1501, ASTM F 963-2011,Sec-4.6 (small parts)	Qualitative
31	Textile, Garments, Toys products(Textile Metal Glass, Plastic, stoneLeather Accessories) in Garments, Metal Jewellery, other article intended to use for children	Determination of Sharp Points Under a Force	16 CFR 1500.48 (Sharp Point) ASTM F 963-2011, Sec-4.9 (Sharp Point)	Qualitative
32	Textile, Garments, Toys products(Textile	Determination of Sharp Edges	16 CFR 1500.49 (Sharp Edges), ASTM F 963-2011,Sec. 4.7	Qualitative

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used (Sharp Edges)	Range of testing/Limit of detection
33	Metal Glass, Plastic, stone Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children  Textile, Garments and Accessories	Safety of children's clothing	BS EN 14682: 2014	Qualitative
34	Paper and Paper Board Items	Bursting Strength of Corrugated and Solid Fibre board	TAPPI T 810 om-11	1 – 50 kgf/cm <sup>2</sup>
35	Paper and Paper Board Items	Grammage of Paper and Paperboard (Mass per Unit Area)	ASTM D 646 –2013	1 GSM – 2000 GSM
36	Paper and Paper Board Items	Edgewise crush resistance	ISO 3037:2013, TAPPI T 811 om-07	1 to 2000 N
37	Leather and leather products	Determination of tensile strength	ISO 3376 : 2011 BS EN 13522 : 2002 ASTM D 2209 :2000 (Reapproved 2010) ASTM D 2208 :2000 (Reapproved 2010)	1N - 5000 N
38	Leather and leather products	Determination of Tear strength	ASTM D 4705 : 2013, ASTM D 4704: 2013, ISO 3377-1: 2011 ISO 3377-2 : 2002	1N - 5000 N
39	Leather and leather products	Determination of Abrasion Resistance of soiling Material	ISO 4649 : 2010	10 to 5000 mm <sup>3</sup>
40	Leather and leather products	Determination of Bursting strength	ISO 3379 : 1976	1 to 80 kgf

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
41	Leather and leather products	Determination of measurement of thickness	ISO 2589: 2002	0.01 to 19.00 mm

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>Field: Chemical</b>				
1	Textile, Garment & Accessories	Dimensional stability to washing	AATCC 135 -2014, AATCC 150 - 2012, ISO 6330 - 2012/ ISO 5077 - 2007, DIN/BS EN 26330 - 1994, AS 2001.5.4 - 2005, BS EN ISO 5077- 2008/ BS EN ISO 6330 2012, ISO 3759 :2011, CAN/CGSB 4.2 NO 58 : 2004, GB/T 8629-2001	Elongation & Shrinkage 0 to ± 30%
2	Textile, Garment & Accessories	Dimensional stability to dry cleaning	In-house method (BD-TX-CH-SOP-002-04)	0 to ± 30%
3	Textile, Garment & Accessories	Appearance after fabric after repeated home laundering	AATCC 124 - 2014, ISO 7768 – 2009, BS ISO 7768: 2009	Grade: SA -1 to SA - 5
4	Textile, Garment & Accessories	Smoothness of seams in fabrics after repeated home laundering	AATCC 88B - 2014, ISO 7770 -2009, BS ISO 7770 – 2009	Grade: SS -1 to SS - 5
5	Textile, Garment & Accessories	Retention of creases in fabrics after repeated home laundering	AATCC 88C - 2014, ISO 7769 -2009, BS ISO 7769 - 2009	Grade : CR -1 to CR - 5
6	Textile, Garment & Accessories	Appearance of apparel and other textile products after repeated home laundering	AATCC 143 : 2014	Grade : SA -1 to SA – 5 Grade : SS -1 to SS – 5 Grade : CR -1 to CR - 5
7	Textile, Garment & Accessories	Appearance (visual assessment) after laundering	In-house method (BD-TX-CH-SOP-001-06)	1 to 5 Grade
8	Textile, Garment & Accessories	Assessing appearance of apparel and other textile end products after domestic washing and drying	ISO 15487 : 2009	Grade: SA -1 to SA - 5
9	Textile, Garment & Accessories	Spirality / Skewing of fabrics & garment	AATCC 179 - 2012, ISO 16322-1: 2005, ISO 16322-2 : 2005 Cor-1 2007, ISO 16322-3: 2005, ASTM D 3882: 2008,	Up to ±30%
10	Textile, Garment & Accessories	Durability wash of garment/Print/motif/appliqué/em broidery	In House Method (BD-TX-CH-SOP-004-01)	1 to 5 Grade

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
11	Textile, Garment & Accessories	Colour fastness to washing	AATCC 61 No.1A-5A : 2013, BS EN ISO 105C06 - 2010, ISO 105 C06 : 2010, ISO 105 C08 : 2010, CAN/CGSB-4.2 No.19.1: 2004, ISO105 C10 - 2006, AS2001.4.15 - 2006, ISO 105 C09 - 2001(Am.2003), ISO 105 C08: 2010 ,BS EN ISO 105 C08 : 2010, BS EN ISO 105 C09 : 2003, BS EN ISO 105 C10 : 2007, DIN EN ISO105 C08 :2010, DIN EN ISO105 C09 :2007, DIN EN ISO105 C10 :2010, JIS L 0844: 2005, GB/T 3921:2008	1 to 5 Grade
12	Textile, Garment & Accessories	Colour fastness to perspiration	AATCC 15-2013, CAN/CGSB 4.2 No.23 M – 90), DIN/BS EN ISO 105 E04 - 2013, ISO 105 E04 - 2013, AS 2001.4.E04- 2005, JIS L 0848: 2004, GB/T 3922:2013	1 to 5 Grade
13	Textile, Garment & Accessories	Colour fastness to rubbing / crocking	AATCC 8 - 2013, AS 2001.4.3 - 1995, CAN/CGSB 4.2 No. 22 – 2004, (DIN EN ISO 105 X12 : 2002, BS EN ISO 105 X12- 2002, ISO 105 X12 - 2001, ISO 105 X16 - 2001 , AATCC 116 : 2013, JIS L 0849: 2013, GB/T 3920: 2008	1 to 5 Grade
14	Textile, Garment & Accessories	Colour fastness to water	AATCC 107 - 2013, DIN EN ISO 105 E01-2013, ISO 105 E01 - 2013, AS 2001.4.E01- 2001, CAN/CGSB 4.2 No.20 :M 89, JIS L 0846: 2004, GB/T 5713:2013	1 to 5 Grade



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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
15	Textile, Garment & Accessories	Colour fastness to sea water	AATCC 106 - 2013, DIN EN ISO 105 E02: 2013, ISO 105 E02: 2013, AS 2001.4.E02 - 2001, CAN/CGSB 4.2 No.21 M- 90	1 to 5 Grade
16	Textile, Garment & Accessories	Colour fastness to chlorinated water (swimming pool water)	DIN EN ISO105 E03 : 2010, ISO 105 E03 : 2010, AS 2001.4.5- 1998, CAN/CGSB 4.2No.52.2: 2013, AATCC 162: 2011	1 to 5 Grade
17	Textile, Garment & Accessories	Shade variation (colour change)	Based on AATCC Evaluation Procedure 1- 2012, ISO 105 A02: 1993 Cor 2005, AATCC 173 - 2009	1 to 5 Grade
18	Textile, Garment & Accessories	Colour fastness to dry cleaning	AATCC 132 :2013, BS EN ISO 105 D01- 2010, ISO 105 D01 - 2010, AS 2001.4.16- 1981, CAN/CGSB 4.2 No.29.1-M 89, GB/T 5711:1997	1 to 5 Grade
19	Textile, Garment & Accessories	Colour fastness to dry heat	AATCC 117 - 2013, DIN EN ISO 105 P01- 1995, ISO 105 P01- 1993	1 to 5 Grade
20	Textile, Garment & Accessories	Colour fastness to hot pressing	AATCC 133 - 2013, DIN EN ISO 105 X11 :1996, ISO 105 X11 - 1994, AS 2001.4.6 - 1990	1 to 5 Grade
21	Textile, Garment & Accessories	Colour fastness to water spotting	AATCC 104 - 2014, DIN EN ISO 105 E07 - 2010, ISO 105 E07- 2010, AS 2001.4.4 - 1998	1 to 5 Grade
22	Textile, Garment & Accessories	Colour fastness to acid / acid spotting	AATCC 6 - 2011, ISO 105 E05 - 2010, AS 2001.4.12 - 1981, DIN EN ISO 105 E05: 2010	1 to 5 Grade
23	Textile, Garment & Accessories	Colour fastness to alkali / alkali spotting	AATCC 6 - 2011, DIN EN ISO 105 E06 - 2006, ISO 105 E06 - 2006, AS 2001.4.9 - 1981	1 to 5 Grade
24	Textile, Garment & Accessories	Colour fastness to bleaching	AATCC 61-5A – 2013, AATCC 101- 2013, ISO 105 N01 - 1993, DIN EN ISO 105 N02 - 1995, ISO 105	1 to 5 Grade

  
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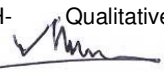
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		Colour fastness to chlorine bleaching	N02 - 1993 AATCC TS 001	
		Colour fastness to non-chlorine bleaching	AATCC TS 001	
25	Textile, Garment & Accessories	Colour fastness to organic solvents	DIN EN ISO 105 X05 - 1997, ISO 105 X05 - 1994, BS 1006 : 1990	1 to 5 Grade
26	Textile, Garment & Accessories	Colour fastness of zipper to laundering	ASTM D 2057 – 2005 (Re 2010)	1 to 5 Grade
27	Textile, Garment & Accessories	Durability of finish of zippers to laundering	ASTM D 2051 - 2014	1 to 5 Grade
29	Textile, Garment & Accessories	Colour fastness to Dye transfer in storage/Sublimation/Dye transfer	AATCC 163 : 2013, JIS L 0854 - 2001, DIN 54056 : 1985	1 to 5 Grade
30	Textile, Garment & Accessories	Colour fastness to actual laundering	In-house method (BD-TX-CH-SOP-008-01) AATCC 135: 2014, AATCC 150: 2012, ISO 6330 : 2012, DIN EN ISO 6330:2012	1 to 5 Grade
31	Textile, Garment & Accessories	Water repellency (Spray test)	AATCC 22 - 2014, DIN EN 24920 - 1992, ISO 4920 - 2012, BS EN 24920, 1992, CAN/CGSB 4.2 No.26.2 - M 94	ISO 1 to ISO 5 (0 to 100)
32	Textile, Garment & Accessories	Water resistance	AATCC 127 - 2014, ISO 811 - 1981, DIN EN 20811 - 1992	0-20000 mm of Water
33	Textile, Garment & Accessories	Colour fastness to sweat	DIN 53160-2 : 2010	1 to 5 grade
34	Textile, Garment & Accessories	Colour fastness to saliva	DIN 53160-1 :2010, GB/T 18886 -2002	1 to 5 grade
35	Textile, Garment & Accessories	Fibre analysis	AATCC 20 - 2013, AATCC 20A – 2014, ISO 1833 - 2006, ASTM D 629 - 2008, CAN/CGSB 4.2 No.14 :2005, AS 2001.7 – 2005, ASTM D 276 : 2012, Regulation (EU) No1007/2011, GB/T 2910: 2009, FZ/T 01057:7:2007	Up to 100%
36	Textile, Garment	Identification of dyestuff	In house method (BD-TX-CH-	Qualitative

  
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S.N.	Products/ Materials/ Items of test & Accessories	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
37	Textile, Garment & Accessories	Colour fastness to Light	SOP-037-01) AATCC 16.3: 2014, ISO 105 B02 :2014, BS EN ISO 105 B02 - 1999, BS 1006 B02 :1990, GB/T 8427 -2008	Grade : 1 to 5 Grade : 1 to 8 Grade : 1 to 8 Grade : 1 to 8
38	Textile, Garment & Accessories	Colour fastness to perspiration & light	AATCC 125: 2013, ISO 105 B07: 2009, GB/T 14576 -2009	Grade : 1 to 8 Grade : 1 to 5
39	Textile, Garment & Accessories	Colour fastness to non chlorine Bleaching in home Laundering	AATCC 172 - 2010	1 to 5
40	Textile, Garment & Accessories	Colour fastness to Ozone	AATCC 109 - 2011, ISO 105 G03 - 1993, BS EN ISO 105 G03 - 1997	1 to 5
41	Textile, Garment & Accessories	Steam Shrinkage Test	BS 4323 :1979, ISO 3005: 1978	0 to 40%
42	Metallic Accessories	Corrosion test	BS 4162:1983 section 10, ISO 22775:2004 (Method 2)	1 to 5
43	Textile, Garment & Accessories	Absorbency of Bleached Textile	AATCC 79 -2014	1.0 sec to 300 sec
44	Textile, Garment & Accessories	Water Resistance : Rain Test	AATCC 35 - 2013	Up to 100 g
45	Leather & Leather Products	Colour Fastness to water Spotting	ISO 15700 : 1998	1 to 5 grade
46	Leather & Leather Products	Colour Fastness to Mild Washing	ISO 15703 : 1999	1 to 5 grade
47	Leather & Leather Products	Colour Fastness to Solvents	ISO 11643 : 2009	1 to 5 grade
48	Leather & Leather Products	Circular Rub Fastness	BS 1006 : 1990, SATRA TM 08	1 to 5 grade
49	Leather & Leather Products	Colour Fastness to Crocking	ASTM D 5053 : 2003( RE 2009)	1 to 5 grade
50	Leather & Leather Products	Colour Fastness to machine Washing	ISO 15702 : 1998	1 to 5 grade

  
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## SCOPE OF ACCREDITATION


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**Accreditation Standard:** ISO / IEC 17025: 2005      **Accreditation Date:** 04 Nov 2012

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
51	Textile, Garments & accessories	Determination of certain listed banned aromatic amines derived from Azo colorants 4-Aminodiphenyl Benzidine 4-Chloro-o-Toluidine 2-Naphthylamine o-Aminoazotoluene 5-nitro-o-toluidine 4-chloroaniline 4-methoxy-m-phenylenediamine 4,4'-Diaminodiphenylmethane 3,3'-Dichlorobenzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine 4,4'-methylene-di-o-toluidine p-Cresidine 4,4'-methylene-bis-(2-chloro-aniline) 4,4'-oxydianiline 4,4'-Thiodianiline o-Toluidine 4-methyl-m-phenylenediamine 2,4,5-Trimethylaniline 4-aminoazobenzene* O-Anisidine 2,4-Xylidin 2,6-Xylidin	SOP No : RSTS-CHEM-201-7 (EN 14362-1 :2012 EN 14362-3 :2012 BS EN 14362-1 :2012 BS EN 14362-3 :2012 DIN EN 14362-1 :2012 DIN EN 14362-3 :2012)  SOP No : RSTS-CHEM-201-3 (EN 14362-1 :2003 EN 14362-2 :2003 BS EN 14362-1 :2003 BS EN 14362-2 :2003 DIN EN 14362-1 :2003 DIN EN 14362-2 :2003 GB-T 17592 :2011 § 64 LFGB BVL B 82.02.4: 2004, § 64 LFGB BVL B 82.02.9: 2008)	5-50000 mg/kg
52	Leather	Determination of certain listed banned aromatic amines in dyed leathers 4-Aminodiphenyl Benzidine 4-Chloro-o-Toluidine 2-Naphthylamine o-Aminoazotoluene	SOP No : RSTS-CHEM-201-2 (ISO 17234-1:2010, § 64 BVL B 82.02.3 (V):2004, ISO 17234-2:2011)	5-50000 mg/kg

  
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<b>Accreditation Standard:</b>	<b>ISO / IEC 17025: 2005</b>	<b>Accreditation Date:</b>	<b>04 Nov 2012</b>
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		5-nitro-o-toluidine 4-chloroaniline 4-methoxy-m-phenylenediamine 4,4'-Diaminodiphenylmethane 3,3'-Dichlorobenzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine 4,4'-methylenedi-o-toluidine p-Cresidine 4,4'-methylene-bis-(2-chloro-aniline) 4,4'-oxydianiline 4,4'-Thiodianiline o-Toluidine 4-methyl-m-phenylenediamine 2,4,5-Trimethylaniline 4-aminoazobenzene* O-Anisidine 2,4-Xylidin 2,6-Xylidin		
53	Textile & garments	Allergenus disperse Dyestuff in textile materials Disperse Blue 1 Disperse Blue 3 Disperse Blue 7 Disperse Blue 26 Disperse Blue 35A Disperse Blue 35B Disperse Blue 102 Disperse Blue 106 Disperse Blue 124 Disperse Brown 1 Disperse Orange 1 Disperse Orange 3 Disperse Orange 37/76 Disperse Red 1 Disperse Red 11 Disperse Red 17 Disperse Yellow 1 Disperse Yellow 3 Disperse Yellow 9 Disperse Yellow 23 Disperse Yellow 39	SOP No : RSTS-SL-202-1 (DIN 54231:2005, § 64 LFGB BVL B 82.02.10-2007)	1-5000 mg/kg
54	Textile & garments	Carcinogenic Dyestuff in textile materials	SOP No : RSTS-SL-202-1 (DIN 54231:2005,	1-5000 mg/kg

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
55	Textile & garments	Acid Red 26 Basic Red 9 Direct Black 38 Direct Blue 6 Direct Red 28 Basic Violet 3 Basic Violet 14 Disperse Orange 11 Disperse Blue 1 Disperse Yellow 3 Direct Brown 95 Solvent Yellow 1 Solvent Yellow 2 Determination of extractable chlorinated phenols & other phenol Pentachlorophenol (PCP) Tetrachlorophenol (TeCP) Trichlorophenol (TCP) Orthophenylphenol ((OPP)	§ 64 LFGB BVL B 82.02.10-2007)  For all chlorinated phenols SOP No : RSTS-CHEM-203-2 (§ 64 LFGB BVL B 82.02.8:2001, DIN 53313:1993, ISO 17070:2006, EN ISO 17070:2006, For orthophenylphenol (OPP): RSTS-SL-237-1 SOP No : RSTS-SL-204-1 (DIN 54232:2007)	0.05-5000 mg/kg for all, 0.5-5000 mg/kg for OPP
56	Textile & garments	Determination of Chlorinated Organic Carriers (COC) in textile commodity 2-Chlorotoluene 3-Chlorotoluene 4-Chlorotoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2,4-Dichlorotoluene 2,5-Dichlorotoluene 2,6-Dichlorotoluene 1,3,5-Trichlorobenzene 2,3-Dichlorotoluene 3,4-Dichlorotoluene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene 2,4,5-Trichlorotoluene 2,3,6-Trichlorotoluene 1,2,3,5-Tetrachlorobenzene 1,2,4,5-Tetrachlorobenzene 1,2,3,4-Tetrachlorobenzene Tetrachlorotoluene Pentachlorobenzene	SOP No : RSTS-SL-204-1 (DIN 54232:2007)	0.1-1000 mg/kg


  
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<b>S.N.</b>	<b>Products/ Materials/ Items of test</b>	<b>Type of tests performed</b>	<b>Specifications/ Standard test methods/Techniques used</b>	<b>Range of testing/Limit of detection</b>
57	Textile , Garments, Leather and plastic accessories	Hexachlorobenzene 2,3,4,5,6-Pentachlorotoluene Determination of Organotin content in textile & plastic materials Monobutyltin trichloride Dibutyltin dichloride Tributyltin chloride Tetrabutyltin Triphenyltin chloride n-octyltin trichloride di-n-octyltin dichloride Tri-cyclohexyltin chloride Tri-octyltin chloride	SOP No : RSTS-SL-205-01 (ISO 17353:2004, BS ISO 17353:2004, DIN EN ISO 17353: 2005)	0.1-1000 mg/kg
58	Textile, garments, leather, plastic and rubber items	Determination of Phthalates – Di-butyl phthalate (DBP), Benzyl butyl phthalate (BBP), Bis-(2-ethylhexyl) phthalate (DEHP), Di-“iso nonyl” phthalate (DINP), Di-n-octyl phthalate (DNOP), Di-“iso decyl” phthalate (DIDP), Di iso pentyl phthalate (DIPP), n-pentyl iso-pentyl phthalate (iPnPP), Di-n-pentyl phthalate (DPP), Bis (2-methoxyethyl) phthalate (DMEP), Di-n-hexyl phthalate (DnHP) Di-iso-butyl phthalate (DIBP) Diisoheptyl phthalate (DIHP) Diundecyl phthalate (DUDP) Di heptyl nonyl undecyl phthalate (DHNUP)	SOP No : RSTS-SL-206-5 (EN 14372 :2004, BS EN 15777 :2009, EN 15777 :2009, CPSC-CH-C1001-09.3) ASTM D3421-1975	30-500000 ppm for all, 100- 600000 ppm for DINP, DIDP, DIHP
59	Plastic accessories & prints in Textile & Garments	Polyvinyl Chloride (PVC) detection in plastic & coating material	SOP No: RSTS-SL-207-1, (Belistein Method-Preliminary method), FT-IR method by solvent Extraction-Confirmatory method)	Qualitative
60	Textile, garments, Leather, plastic & paper materials	Determination of Alkylphenol (AP) & Alkylphenol Ethoxylates (APEO) in textile, plastic, leather and paper items Nonylphenol (NP) Octylphenol (OP)	SOP No: RSTS-CHEM-213-1	1-10000 mg/kg for APEO, 10 – 10000 mg/kg for AP

  
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**Accreditation Standard:** ISO / IEC 17025: 2005

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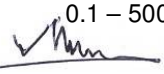
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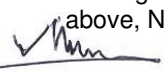
S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
61	Textile, Garments, accessories, coated materials, polymeric materials & liquid samples	Nonylphenoethoxylates (NPEO) Octylphenoethoxylates (OPEO) Determination of extractable Perfluorooctanoic acid (PFOA), Heptadecafluorooctanesulfo nic acid (PFOS), Perfluorooctane sulphonamide (PFOS-NH <sub>2</sub> ) in textiles, coated materials, polymeric materials and liquid samples	SOP No: RSTS-SL-219-1 RSTS-SL-219-2 RSTS-SL-219-3 RSTS-SL-219-4 Directive 2006/122 EC	1-10000 mg/kg for noncoated or 1-1000 µg/m <sup>2</sup> for coated
62	Textile, Garments & accessories	Determination of free & hydrolyzed formaldehyde/ Formaldehyde content/ Determination of released formaldehyde	SOP No: RSTS-CHEM-101-1 (ISO 14184-1:2011, EN ISO 14184-1:2011, BS EN ISO 14184-1:2011, DIN EN ISO 14184-1:2011, ISO 14184-2:2011, EN ISO 14184-2:2011, BS EN ISO 14184-2:2011, DIN EN ISO 14184-2:2011, AATCC 112:2014, § 64 LFGB BVL B 82.02.1:1985, GB-T 2912.1:2009)	16-3500 mg/kg
63	Leather	Determination of free & hydrolyzed formaldehyde/ Formaldehyde content/ Determination of released formaldehyde	SOP No: RSTS-SL-101-3 (ISO 17226-1/2:2008, DIN 53315:1996- Method A)	10-150 mg/kg
64	Textile, garments & accessories	pH value in aqueous extract/ water extract	SOP No : RSTS-CHEM-102-1 (ISO 3071:2005, EN ISO 3071:2006, BS EN ISO 3071:2006, DIN EN ISO 3071:2006, EN 1413:1998, BS EN 1413 :1998, AATCC 81:2012, GB-T 7573:2009)	1 to 14
65	Leather	pH value in aqueous extract/ water extract	SOP No : RSTS-SL-102-2 (ISO 4045:2008, BS EN ISO 4045 :2008)	1 to 14
66	Textile,	Determination of Dimethyl	SOP No: RSTS-SL-233-1	0.1 – 500 mg/kg

  
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## SCOPE OF ACCREDITATION

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
67	garments, leather, PU leather, rubber & silica gel pellet  Textile, garments, polymer and rubber type samples	fumerate (DMFu) in leather, PU leather, textile, rubber & silica gel pellet  Determination of polycyclic aromatic hydrocarbon (PAH) in textile, polymer and rubber type samples Naphthalene (NAP) Acenaphthylene (ANY) Acenaphthene (ANA) Fluorene (FLU) Phenanthrene (PHE) Anthracene (ANT) Fluoranthene (FLT) Pyrene (PYR) Benzo(a)anthracene (BaA) Chrysene (CHR) Benzo(b)fluoranthene (BbF) Benzo(k)fluoranthene (BkF) Benzo(a)pyrene (BaP) Indeno(1,2,3-cd)pyrene (IPY) Dibenzo(a,h)anthracene (DBA) Benzo(g,h,i)perylene (BPE) 2-methylphthalene (2-MNP) 2-methylphthalene (1-MNP) Benzo(j)fluoranthene (BjF) Benzo(e)pyrene (BeP)	SOP No: RSTS-CHEM-232- 1  AfPS GS 2014:01 PAK	0.2-500 mg/kg
68	Textile, garments Leather and Accessories	Extractable heavy metals – Lead Cadmium Chromium Chromium VI Cobalt Antimony Arsenic Mercury Nickel Copper Manganese	SOP No: RSTS-CHEM-103- 1 (Extraction in perspiration by ISO 105 E04:2013 / saliva solution by DIN 53160:2010 and process by § 64 LFGB BVL B 82.10 -1 with ICP/OES or ICP-MS analysis, for Chromium VI- extraction by DIN 38406-10:1985, OKO Tex Standard 100 & OKO Tex Standard 200)	Pb: 0.1 mg/kg and above, Cd: 0.05 mg/kg and above Cr: 0.50 mg/kg and above, Cr(VI): 0.50 mg/kg and above Co: 0.50 mg/kg and above, Sb: 1.00 mg/kg and above As: 0.10 mg/kg and above, Hg: 0.01 mg/kg and above, Ni: 0.50

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
69	Textile, garments & Leather	Determination of Hexavalent Chromium (Chromium VI) content in leather	SOP No: RSTS-CHEM-104-1 RSTS-CHEM-104-6 (CEN/TS 14495:2003, ISO 17075:2007, BS EN 420:2003+A1 :2009 DIN 53314:1997, § 64 LFGB 82.02.11:2008)	mg/kg and above Cu: 5.0 mg/kg and above, Mn: 5.0 mg/kg and above 0.5-5000 mg/kg
70	Plastic, Metallic & Paper items (Packaging items)	Determination of Hexavalent Chromium (Chromium VI) content in polymeric, metallic, inorganic & organic based samples	SOP No: RSTS-HL-105-1 (USEPA 3060A:1996, USEPA 7196A:1992)	5-90000 mg/kg
71	Metal item	Screening test for nickel release from alloys & coatings (nickel spot test)	SOP No: RSTS-CHEM-105-6 (prEN 12471:1996, EN 12471:1996, CR 12471:2002)	Qualitative
72	Metal item (Coated and non coated)	Detection of nickel release from coated and non coated items	RSTS-SL-105-5 EN 12472 :2005+A1 :2009 EN 1811 :2011 EN 1811 :2011 +AC :2012	0.1-500 µg/cm <sup>2</sup> /week
73	Plastic (PVC)/ Rubber accessories in Textile & garments	Cadmium content in PVC item	SOP No: RSTS-SL-106-1 (EN 1122:2001, BS EN 1122:2001, USEPA 3052:1996, CPSC-CH-E1004-11)	5-900000 mg/kg
74	Textile, garments, accessories, toy products & paint or surface coating material	Total lead and cadmium content in wet paint or surface coating materials	SOP No: RSTS-HL-102-1 (CPSC-CH-E1003-09.1, ASTM E1645-2007 & ASTM E 1613-2012 16 CFR 1303 ASTM F963 US Public Law 110-314)	10-900000 mg/kg

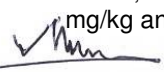
  
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<b>CAB Name &amp; Address:</b>	<b>SGS Bangladesh Ltd.; Noor Tower, 2<sup>nd</sup>, 6<sup>th</sup> – 9<sup>th</sup>, 13<sup>th</sup> floor; 110 Bir Uttam CR Datta Road; Dhaka – 1205</b>		
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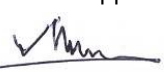
<b>S.N.</b>	<b>Products/ Materials/ Items of test</b>	<b>Type of tests performed</b>	<b>Specifications/ Standard test methods/Techniques used</b>	<b>Range of testing/Limit of detection</b>
75	Textile, garments, accessories, toy products, plastic, glass & ceramic items	Total lead and cadmium content in plastic, fabric	SOP No: RSTS-HL-102-2 (CPSC-CH-E1002-08.1, USEPA 3051A:2007, USEPA 3052:1996, USEPA 3050B:1996 ASTM E1613 )	10-900000 mg/kg
76	Textile, garments, accessories, toy products & metal items	Total lead and cadmium content in children's metal product including metal jewelry	SOP No: RSTS-HL-102-3 (CPSC-CH-E1001-08.1, USEPA 3051A:2007, USEPA 3052:1996 US Public Law 110-314 )	10-900000 mg/kg
77	Textile and plastic item	Total lead content in textile, plastic, metal & surface coating by XRF or XOS	SOP No: RSTS-HL-102-5 ASTM F2853-10 CPSC-CH-E1003-10 CPSC-CH-E1002.08.1	50-900000 mg/kg
78	Textile, garments, accessories & plastic items	Heavy Metal & toxic elements (Cadmium, Chromium, Mercury, Lead & Tin) content in textile & plastic samples	SOP No: RSTS-SL-108-1 (USEPA 3052:1996 USEPA 6010B/6020	Cd: 0.5 mg/kg and above, Cr: 0.01 mg/kg and above, Hg: 0.1 mg/kg and above Pb: 0.1 mg/kg and above, Sn: 0.1 mg/kg and above
79	Plastic, metal & packaging materials	Determination of Toxic elements [Pd, Cd, Cr(VI), Hg] in packaging materials	SOP No: RSTS-SL-108-2 (USEPA 3052:1996 & for Cr(VI) USEPA 3060A:1996 Directive 94/62/EC EPA 3050B EPA 3051A EPA 3052 IEC 62321 Ed1	Pb: 5 mg/kg and above, Cd: 5 mg/kg and above, Cr: 5 mg/kg and above Hg: 10 mg/kg and above
80	Textile, garments, accessories, toy products, metal, plastic and coated items	Migration of Certain Element/Toxicity Lead, Boron, Tin, Chromium VI Cadmium, Zinc, Chromium III, Chromium, Aluminum Barium, Magnesium Antimony, Cobalt Arsenic, Nickel Mercury, Copper Selenium, Strontium	SOP No: RSTS-HL-103-2 EN 71-3:2013 EN 71 part3:1994+A1:2000, AC:2002, 2009/48/EC	Pb: 10 mg/kg and above, Cd: 5 mg/kg and above, Cr: 0.15 mg/kg and above Ba: 50 mg/kg and above, Sb: 10 mg/kg and above As: 10 mg/kg and above, Hg: 10 mg/kg and

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
				above, Se: 10 mg/kg and above B: 50 mg/kg and above Al: 50 mg/kg and above Cr(III): 1 mg/kg and above Cr(VI): 0.18 mg/kg and above Mn: 50 mg/kg and above Co: 10 mg/kg and above Ni: 10 mg/kg and above Cu: 50 mg/kg and above Zn: 50 mg/kg and above Sr: 50 mg/kg and above Sn: 4.9 mg/kg and above
81	Textile, garments, accessories & metal item	Determination of iron content in textile & metal item (Ferrous free test)	SOP No: USEPA 3052:1996,	20-900000 mg/kg
82	Ceramic wares	Leachable lead and cadmium in ceramic wares	ASTM C 927-80 (Reapproved 2014), ISO 6486-1:1999, BS 6748:1986+A:2011	For Pb: Min 0.2 mg/L; 0.04 mg/dm <sup>2</sup> For Cd: Min 0.02 mg/L; 0.01 mg/dm <sup>2</sup>
83	Materials and articles in contact with food stuffs	Thermal shock and thermal shock endurance	BS EN 1183:1997	Qualitative
84	Materials and articles in contact with food stuffs	Resistance to microwave heating of ceramic , glass, glass ceramic or plastic cookware	BS EN 15284:2007	Qualitative
85	Textile, garments &	Determination of Triclosan in Textile Material by	RSTS-SL-231-1	10 ppm

  
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S.N.	Products/ Materials/ Items of test accessories	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		GC/MS		

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