

GB/T 18886-2019 *Textiles -Tests for Colourfastness* - *Colourfastness to Saliva* Put into Implementation January 1st, 2020

GB/T 18886-2019 supersedes GB/T 18886-2002, and has been put into implementation since January 1st, 2020. There are several differences between these two editions which may lead to different test results, such as the formula of artificial saliva, the selection of single-fiber adjacent fabric, new evaluation method and some testing parameters.

No.	Item	GB/T 18886-2002	GB/T 18886-2019	Note
1	Normative references	GB 7564 - GB 7568(abolished), GB 11404(abolished)	GB/T 7568.1 - GB/T 7568.8	Replaced abolished standards with new standards on adjacent fabrics
		/	GB/T 6151	Added GB/T 6151
		GB/T 3922	/	Deleted GB/T 3922
		/	GB/T 6682	Added standard on standard water used in test
		/	GB/T 13765	Added standard on specification of flax and ramie adjacent fabrics
		/	GB/T32598, GB/T 32616	Added standard on method for instrument evaluation
2	Pressure on specimen	12.5 kPa	(12.5±0.9) kPa	Added pressure tolerance
3	Specimen size	100mm×40mm	(100±2)mm× (40±2)mm	Added size tolerance
4	Artificial saliva formula	1 L solution contains: <ul style="list-style-type: none"> • 3.0g Lactic acid (CH₃-CH(OH) COOH) • 0.2g Urea (H₂N·CO·NH₂) • 4.5g Sodium chloride (NaCl) • 0.3g Potassium chloride (KCl) • 0.3g Sodium sulfate (Na₂SO₄) • 0.4g Ammonium chloride (NH₄Cl) 	1 L solution contains: <ul style="list-style-type: none"> • 0.76 g Dipotassium hydrogen phosphate trihydrate (K₂HPO₄·3H₂O) • 0.75 g Potassium chloride (KCl) • 0.53 g Potassium Carbonate (K₂CO₃) • 0.33 g Sodium Chloride (NaCl) • 0.17 g Magnesium chloride hexahydrate (MgCl₂·6H₂O) • 0.15 g Calcium chloride dihydrate (CaCl₂·2H₂O) • Adjust the pH of the solution to 6.8 ± 0.1 with 1% hydrochloric acid solution. 	Changed formula referring to DIN 53160-1:2010
		/	Procedure to prepare the artificial saliva	Added preparation procedure
		/	PH value: 6.8±0.1	Added the requirement of PH value
5	Selection of single-fiber adjacent fabric	2 nd single-fiber adjacent fabric for polyamide fiber: wool or viscose	2 nd single-fiber adjacent fabric for polyamide fiber: wool or cotton	Changed the 2 nd single-fiber adjacent fabric for polyamide fiber
		/	Note: For samples made of other fibers, the single-fiber adjacent fabric with the same type of fiber or similar fiber can be selected.	Added note for the single-fiber adjacent fabric selection for other fibers
6	Number of separating Plate	/	Note: Each test device can contain a maximum of 10 specimen at the same time. Each specimen shall be separated by plates (11 plants in total). All 11 plates shall be put into the device, even if there are less than 10 specimen, to ensure the pressure consistency on specimen	Explicitly stipulated plate number
7	Specimen/device position	/	Horizontal position or vertical position	Explicitly stipulated device/specimen position
8	Evaluation method	By grey scales	By grey scales or instrument	Added instrument evaluation method

No.	Item	GB/T 18886-2002	GB/T 18886-2019	Note
9	Apparatus and materials	/	<ul style="list-style-type: none"> • Colorimeter or color difference meter to evaluate color change or color staining which meets the requirements in GB/T 32616 and GB/T 32598. • Balance, accurate to 0.01g • A set of 11 glass or acrylic resin plates • Corrosion-resistant flat bottom vessel • PH meter, accurate to at least 0.1 	Added some apparatuses
10	Test report	/	<ul style="list-style-type: none"> • Standard No: GB/T 18886-2019 • Sample description • Evaluation method (Visual rating or instrument rating) for color change • Evaluation method (Visual rating or instrument rating) for color staining of single-fiber adjacent fabric • Evaluation method (Visual rating or instrument rating) for color staining of multifiber adjacent fabrics and type of multifiber adjacent fabric • Position of specimen in incubator (vertical or horizontal) • Any deviations from GB/T 18886-2019 	More contents required in reports

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