

## GB/T 5714-2019 *Textiles - Tests for Colourfastness: Colourfastness to Sea Water* Put into Implementation Since March 1, 2020

GB/T 5714-2019 supersedes GB/T 5714-1997, and has been put into implementation since March 1st, 2020. There are several differences between these two editions which may lead to different test results, such as the specimen stacking orientation in the oven, the introduction of instrumental evaluation of color change/ color staining, revision on single fiber adjacent fabric, and some testing parameters.

No.	Item	GB/T 5714-1997	GB/T 5714-2019	Note
1	Scope	/	Add "applicable for all textile products"	Editorial change & no impact
2	Normative references	GB 7564 - GB 7568(abolished), GB 11404(abolished)	Add reference to GB/T 7568.1 - GB/T 7568.7 Revise the year citation on GB/T 250, GB/T 251 & GB/T 6151	Replaced abolished standards with new standards on adjacent fabrics
		/	Add reference to GB/T 6682	Added standard on standard water used in test
		/	Add reference to GB/T 13765	Added standard on specification of linen and ramie adjacent fabrics
		/	Add reference to GB/T 32598, GB/T 32616	Added standard on method for instrument evaluation
3	Pressure on specimen	12.5 kPa	(12.5±0.9) kPa	Added pressure tolerance
4	Specimen size	100mm×40mm	(100±2)mm×(40±2)mm	Added size tolerance
5	Sea water formula	30 g/L NaCl in grade 3 water	30g/L Reagent grade or above NaCl in grade 3 water per GB/T 6682. Remark: to use immediately after preparation.	Specify the purity grade of sodium chloride (NaCl) and the specification standard of water. Suggest freshly prepared.
6	Selection of single-fiber adjacent fabric	2 <sup>nd</sup> single-fiber adjacent fabric for acetate or triacetate fiber is specified	No reference to 2 <sup>nd</sup> single-fiber adjacent fabric for acetate or triacetate fiber	2 <sup>nd</sup> single-fiber adjacent fabric for acetate or triacetate fiber is removed
		/	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
7	Apparatus and materials	<ul style="list-style-type: none"> <li>Section title as apparatus and reagents.</li> </ul>	<ul style="list-style-type: none"> <li>Section title changed to apparatus and materials</li> <li>Colorimeter or color difference meter to evaluate color change or color staining which meets the requirements in GB/T 32598 and GB/T 32616.</li> <li>Balance, precision to 0.01g</li> <li>A set of 11 glass or acrylic resin plates</li> <li>Flat bottom vessel made of inert material.</li> </ul>	Added some apparatus
8	Specimen treatment	Samples are completely wetted with NaCl solution, decant solution, and placed between glass or acrylic plates at preheat device under 12.5kPa.	<ul style="list-style-type: none"> <li>Thoroughly wetted the sample with liquor ratio of 50:1 and remains at room temperature for 30min.</li> <li>If fewer than 10 samples, 11 plates are still used to maintain pressure</li> <li>Horizontal position or vertical position</li> </ul>	Explicitly stipulated NaCl sample liquor ratio, immersion time before stacking, number of stacking plates required, device/ specimen orientation
9	Evaluation method	By grey scales	By grey scales or instrument	Added instrument evaluation method

No.	Item	GB/T 5714-1997	GB/T 5714-2019	Note
10	Test report	<ul style="list-style-type: none"> <li>Standard No: GB/T 5714-1997</li> <li>Sample description and specification</li> <li>Color change results</li> <li>Color staining result of single fiber swatches if using single-fiber adjacent fabric</li> <li>Color staining results of multi-fiber swatch if using multi-fiber adjacent fabrics., and the type of multi-fiber adjacent fabrics used</li> </ul>	<ul style="list-style-type: none"> <li>Standard No: GB/T 5714-2019</li> <li>Sample description</li> <li>Evaluation method (Visual rating or instrument rating) for color change</li> <li>Evaluation method (Visual rating or instrument rating) for color staining of single-fiber adjacent fabric</li> <li>Evaluation method (Visual rating or instrument rating) for color staining of multi-fiber adjacent fabrics and type of multi-fiber adjacent fabric</li> <li>Position of specimen in oven (vertical or horizontal)</li> <li>Any deviations from GB/T 5714-2019</li> </ul>	More contents required in reports

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