

## Standard Update: ISO 105-E04:2008 - Colour Fastness to Perspiration

The International Organization for Standardization's **ISO 105-E04:1994/Cor.1:2002** has been withdrawn and is now replaced with **ISO 105-E04:2008** which specifies a method for determining the resistance of the colour of textiles of all kinds and in all forms to the action of human perspiration.

The significant differences between the old and new standards are summarized in the table below.



**Significant differences between ISO 105-E04:1994/Cor.1:2002 and ISO 105-E04:2008**

Section	105-E04:1994 / Cor.1:2002	ISO 105-E04:2008
<b>3 Principle</b>	Colour assessment by comparison with the grey scales.	Colour assessment by comparison with the grey scales <i>or instrumentally</i> .
<b>4 Apparatus and Reagents</b>		
<b>4.2 Oven</b>	<i>Without an air-circulating fan</i> , maintained at $37 \pm 2$ °C.	Maintained at $37 \pm 2$ °C.
<b>4.3 Alkaline solution</b>	...brought to pH 8..	...brought to pH 8 ( $\pm 0.2$ )..
<b>4.4 Acid solution</b>	... brought to pH 5.5...	... brought to pH 5.5 ( $\pm 0.2$ )..
<b>4.5 Adjacent fabrics (Table 1)</b>	<i>9 Types</i> of single-fibre adjacent fabrics.	<i>8 Types</i> of single-fibre adjacent fabrics (the adjacent fabrics "acetate/viscose" were deleted).
<b>4.8 Spectrophotometer or colorimeter</b>	---	<i>Spectrophotometer or colorimeter for assessing change in colour and staining, complying with ISO 105-A04 and ISO 105-A05.</i>
<b>5 Test specimen (dimensions)</b>	40 mm × 100 mm	(40 ± 2) mm × (100 ± 2) mm
<b>6 Procedure</b>		
<b>6.1 Preparation of specimen</b>	---	<i>Requires weighing of each composite specimen before and after soaking in perspiration solution to ensure the wetted composite specimen weighs 2 to 2.5 times its original weight.</i>
<b>6.2 Incubation</b>	---	<i>Requires positioning the test devices containing the composite specimens such that the test specimens are in the vertical position.</i>
<b>6.4 Colour assessment</b>	By comparison with the grey scales.	By comparison with the grey scales <i>or instrumentally</i> .

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