

JIS

JAPANESE INDUSTRIAL STANDARD

**Test methods for colour
fastness to chlorinated water**

JIS L 0884—1996

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**In the event of any doubt arising,
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Test methods for colour fastness
to chlorinated water

L 0884-1996

1. **Scope** This Japanese Industrial Standard specifies the test methods for colour fastness of dyed textiles to chlorinated water. The chlorinated water mentioned in this Standard means the solution containing the concentrated available chlorine which is used for the sterilization of swimming pool, for example.

Remarks 1. The following standards are cited in this Standard:

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|------------|--|
| JIS K 1207 | Calcium hypochlorite solution |
| JIS K 8576 | Sodium hydroxide |
| JIS K 9007 | Potassium dihydrogenphosphate |
| JIS K 9019 | Disodium hydrogenphosphate 12-water |
| JIS L 0801 | General principles of test methods for colour fastness |
| JIS L 0804 | Grey scale for assessing change in colour |
| JIS Z 8802 | Methods for determination of pH of aqueous solutions |
2. The following standard is the corresponding International Standard to this Standard:
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|-------------------|--|
| ISO 105-E03: 1994 | Textiles—Tests for colour fastness—Part E03 : Colour fastness to chlorinated water (swimming-pool water) |
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2. **Principle** A specimen is treated with dilute solution of sodium hypochlorite by the specified method, and after drying it, the colour fastness is assessed by comparing the change in colour appearing on the specimen with the grey scale for assessing change in colour.

3. **Classification of tests** The test is classified into four classes according to available chlorine, pH, temperature, liquor ratio and time as given in Table 1. The methods to be adopted shall be determined according to the intended purpose.

Table 1. Test with chlorinated water
— Classification and conditions —

Classification	Test solution		Temperature °C	Liquor ratio	Time min
	Available chlorine mg/l	pH			
Method A	10	7.0±0.2	25±2	200 : 1	30
Method B	20	7.5±0.05	27±2	100 : 1	60
Method C	50				
Method D	100				