

# ISO 21896:2020-03 (E)

## Paper, pulp, and recycling - Decolouration test of dye coloured paper products and paper products printed using dye inks

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Symbols and abbreviations .....	3
5	Principle .....	3
6	Apparatus .....	3
6.1	Pulp preparation material .....	3
6.2	Reductive bleaching with sodium hydrosulphite .....	3
6.3	Oxidative bleaching with hydrogen peroxide .....	3
6.4	Preparation of pads .....	3
6.5	Optical measurements .....	4
7	Reagents .....	4
7.1	Reductive bleaching with sodium hydrosulphite .....	4
7.2	Oxidative bleaching with hydrogen peroxide .....	4
7.3	Preparation of pads .....	4
8	Sampling .....	5
9	Procedure for preparation of pulp for optical measurements .....	5
9.1	Pulp preparation .....	5
9.2	Bleaching the pulp .....	5
9.3	Reductive bleaching with sodium hydrosulphite .....	5
9.4	Oxidative bleaching with hydrogen peroxide .....	6
9.4.1	Bleaching conditions .....	6
9.4.2	Preparing the bleaching liquor .....	6
9.4.3	Bleaching .....	7
10	Procedure for preparation of filter pads .....	7
11	Conditioning of the filter pads for the measurements .....	8
12	Optical measurements and calculating the decolouration index .....	8
12.1	Measurement conditions .....	8
12.2	Measurements .....	8
12.3	Calculating the decolouration index .....	8
13	Test Report .....	9
Annex A (informative) Sodium hydrosulphite titration .....		10
Annex B (informative) Peroxide titration .....		12
Bibliography .....		14