

ISO 14362-1:2017-02 (E)

Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	General	1
5	Principle	3
6	Safety precautions	3
7	Reagents	3
8	Apparatus	4
9	Test specimen sampling and preparation	6
9.1	General	6
9.2	Textile article	6
9.3	Fibre composition	6
9.4	Case of the fibre blends	7
9.5	Coloured materials with pigments	7
9.6	Colours	7
9.6.1	General	7
9.6.2	Case of colour gathering	7
9.6.3	Preparation of the three colour test specimen	8
10	Procedure	8
10.1	Colorant extraction for disperse dyes with xylene	8
10.2	Textiles coloured with pigments and/or dyed with colorants other than disperse dyes	8
10.3	Reductive cleavage	8
10.4	Separation and concentration of the amines	8
10.5	Amine detection and quantification	9
10.5.1	Detection of aniline and 1,4-phenylenediamine (indicators of 4-aminoazobenzene)	9
10.5.2	In relation to quantification equipment / other sources of false positive results	9
10.6	Check procedure	10
10.6.1	General	10
10.6.2	Calibration using internal standard (quantification performed by gas chromatography) ...	10
10.6.3	Calibration without internal standard	11
10.6.4	Amine recovery	11
11	Evaluation	11
11.1	General	11
11.2	Calculation of amine in the sample	12
11.3	Reliability of the method	12
12	Test report	12

Annex A (informative) Chromatographic analyses	13
Annex B (informative) Reliability of the method	17
Annex C (informative) Assessment guide -- Interpretation of analytical results	19
Annex D (informative) Explanatory table of dyestuffs used in various textile materials	25
Annex E (informative) Procedure for liquid/liquid extraction without diatomaceous earth	26
Annex F (normative) Colorants -- Methods for determination of certain aromatic amines	29
Annex G (informative) Pigments	30
Bibliography	32