INTERNATIONAL STANDARD



First edition 1989-12-01

Textiles — Tests for colour fastness —

Part G04 :

Colour fastness to oxides of nitrogen in the atmosphere at high humidities

Textiles - Essais de solidité des teintures -

Partie G04 : Solidité des teintures aux oxydes d'azote en atmosphère à taux d'humidité élevés



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. Mernational organizations, govern-mental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council They are approved in accordance with ISO procedures requiring at least 75% approval by the member bodies voting.

International Standard ISO 105-G04 was prepared boyechnical Com-

ternational S. ittee ISO/TC 38, Textme SO 105 was previously published magnetic (e.g. "Part A"), with publication dates Each part contained a series of "sections", each designed the section A01"). These sections are now being republished as sectors documents, themselves designated "parts" but retaining their earlier alphanumeric designations. A complete list of these parts is given the theory is a two-tions of the sector alphanumeric designations. A complete list of these parts is given the theory is a two-tions of the sector alphanumeric designations. A complete list of these parts is given the two theory is a two-tions of the sector alphanumeric designations. A complete list of these parts is given the two theory is a two-tions of the sector alphanumeric designations. A complete list of the sector alphanumeric designations of the sector alphanumeric designations of the sector alphanumeric designations. A complete list of the sector alphanumeric designations of the sector alphanumeric designations of the sector alphanumeric designations of the sector alphanumeric designations. A complete list of the sector alphanumeric designations of the sector alphanumeric designation designations of the sector alphanumeric designations of the sector alphanumeric designation designa

© ISO 1989

All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Introduction
Introduction
Introduction
Introduction
Interpretation
Inter

This counternance is a performionally left blank This page repetionally left blank the month that the page repetionally left blank

Textiles — Tests for colour fastness —

Part G04 : Colour fastness to oxides of nitrogen in the atmosphere at high humidities

1 Scope

This part of ISO 105 specifies a method or determining the resistance of the colour of textiles to the action of oxides of nitrogen in the atmosphere at elevated temperatures and high relative humidities

For testing at lower humidities, see ISO 105-G:19 section G01.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 105. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 105 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 105-A02:1987, Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour.

ISO 105-C01:1989, Textiles — Tests for colour fastness — Part C01: Colour fastness to washing: Test 1.

ISO 105-C02:1989, Textiles — Tests for colour fastness — Part C02: Colour fastness to washing: Test 2.

ISO 105-C03:1989, Textiles — Tests for colour fastness — Part C03: Colour fastness to washing: Test 3. ISO 105-C04:1989, Textiles — Tests for colour fastness — Part C04: Colour fastness to washing: Test 4.

ISO 105-C05:1989, Textiles — Tests for colour fastness — Part C05: Colour fastness to washing: Test 5.

ISO 105-D01:1987, Textiles — Tests for colour fastness — Part D01: Colour fastness to dry cleaning.

SO 105-G:1978, Textiles — Tests for colour fastness — Part G: Colour fastness to atmospheric contam-

ISO 105-101:1989, Textiles — Tests for colour fastness — Part Oo1: Measurement of colour and colour differences.

3 Principle

A test specimen and a piece of control fabric are simultaneously exposed to oxides of nitrogen in an atmosphere which is maintained at 87,5 % \pm 2,5 % relative humidity and a temperature of 40 °C \pm 1 °C until the control fabric shows a colour change corresponding to that of a reference of fading. The exposure/measurement cycle is repeated until the specimen shows a definite colour change or for a prescribed number of cycles.

4 Apparatus and reagents

4.1 Exposure chamber, made of stainless steel which is coated on the inside with a resistant coating, capable of maintaining an atmosphere having a relative humidity of 87,5 % \pm 2,5 % relative humidity at a temperature 40 °C \pm 1 °C and contain-