
INTERNATIONAL STANDARD



2840

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Prints and printing inks — Determination of the resistance of prints to detergents

Impressions et encres d'imprimerie — Détermination de la résistance des impressions aux détergents

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FOREWORD

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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.

International Standard ISO 2840 was drawn up by Technical Committee ISO/TC 130, *Graphic technology*, and circulated to the Member Bodies in August 1972.

It has been approved by the Member Bodies of the following countries :

Australia	Germany	Spain
Austria	Hungary	Sweden
Chile	Ireland	Switzerland
Czechoslovakia	New Zealand	Thailand
Denmark	Poland	Turkey
Egypt, Arab Rep. of	Romania	United Kingdom
France	South Africa, Rep. of	

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Finland
Italy

Prints and printing inks – Determination of the resistance of prints to detergents

0 INTRODUCTION

This International Standard is in technical conformity with CEI specification 07-59 of the European Committee of the Paint and Printing Ink Manufacturers' Associations.

1 SCOPE

This International Standard specifies a method for determining the resistance of prints to detergents.

2 FIELD OF APPLICATION

This International Standard applies to all printing substrates such as paper, board, metals (thin metal sheets and plate) and plastics materials, and to all printing processes: letterpress, litho and gravure.

3 REFERENCE

ISO/R 105/I, *Tests for colour fastness of textiles – First series*.

4 DEFINITION

By **resistance of a print to detergents** is meant the resistance of a print, to the particular detergent used for the test.

The print is considered to be resistant to the detergents under test when, under the test conditions and provided that the substrate has undergone no change, any deterioration is only negligible and bleeding is below grade 4 of the grey scale.

5 TEST METHOD

5.1 Principle

A test piece is pressed with the printed side against filter papers previously dipped in a solution of the specific detergent under test.

An assessment is made of any changes to the print and any bleeding of the colour onto the filter paper.

5.2 Apparatus and reagents

5.2.1 Filter paper for quantitative analysis, having a very smooth non-hardened surface. The size of the strips of filter paper should be 60 mm X 90 mm.

5.2.2 1 % solution of the particular detergent under test, in deionized water freshly prepared.¹⁾

1) A concentration of 3 % is permissible.