

This is a preview of "ISO 2836:2021". [Click here to purchase the full version from the ANSI store.](#)

Fourth edition
2021-05

Graphic technology — Prints and printing inks — Assessment of resistance of prints to various agents

*Technologie graphique — Impressions et encres d'imprimerie —
Évaluation de la résistance des impressions à divers agents*



Reference number
ISO 2836:2021(E)

© ISO 2021

This is a preview of "ISO 2836:2021". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

This is a preview of "ISO 2836:2021". [Click here to purchase the full version from the ANSI store.](#)

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Agents	2
6 Apparatus	3
7 Preparation of test pieces	4
8 Test methods	4
8.1 General.....	4
8.2 Liquid agents and solutions.....	5
8.3 Cheese.....	5
8.4 Meltable solid agents.....	5
8.5 Solid spices.....	5
8.6 Solvents and varnishes.....	5
8.7 Test conditions for various liquid and solid agents.....	6
8.8 Acids.....	6
9 Evaluation of results	7
9.1 General.....	7
9.2 Liquid and solid agents, solutions.....	7
9.3 Solvents and varnishes.....	8
9.4 Acids.....	8
10 Test report	8
Bibliography	10

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. International organizations, governmental 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 130, *Graphic technology*.

This fourth edition cancels and replaces the third edition (ISO 2836:2004), which has been technically revised.

The main changes compared to the previous edition are as follows:

- consistency and document structure have been improved and an Introduction has been added;
- new agents have been added;
- information that aspects of food safety and consumer protection for food contact materials are not covered has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This is a preview of "ISO 2836:2021". [Click here to purchase the full version from the ANSI store.](#)

Introduction

During its service life, prints might need to resist certain agents. These agents can come in contact with prints during finishing operations like varnishing, or accidentally via interactions with certain vapours, fluids or solids like spilling of package contents onto the print. These kinds of agents can cause visual alterations to the print. These changes are due to either the colorants used in the inks or the substrate itself not being resistant to the particular agent.

This document defines laboratory test methods for the interaction of agents and prints and gives guidelines and requirements for the evaluation of changes on the print caused by those agents. All the methods within this document aims to allow a reasonable choice of raw materials to be used for the printing inks and substrates and for the testing of the prints for qualification purposes. The aim of all these methods is to avoid visual changes of the prints caused by the agents. Aspects of food safety and consumer protection for food contact material are not covered.