

ISO/IEC 19752

Information technology — Office equipment — Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components

*Technologies de l'information — Équipement de bureau —
Méthode pour la détermination du rendement des cartouches
de toner pour les imprimantes électrophotographiques
monochromatiques et pour les dispositifs multifonctionnels qui
contiennent des composants d'imprimantes*

**Third edition
2025-11**

This is a preview of ISO/IEC 19752:2025. Click [here](#) to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2025

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/IEC 19752:2025. [Click here to purchase the full version from the ANSI store.](#)

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Test parameters and conditions	2
4.1 Set-up.....	2
4.2 Sample size.....	3
4.3 Print mode.....	3
4.4 Print environment.....	3
4.5 Paper.....	4
4.6 Maintenance.....	4
4.7 Test file.....	4
4.8 End of life.....	5
5 Test methodology	5
5.1 Testing procedure.....	5
5.2 Procedure for handling a defective cartridge or printer.....	6
5.2.1 General.....	6
5.2.2 Defective cartridge.....	6
5.2.3 Defective printer.....	6
6 Determination of the yield value and declaration	6
6.1 Determination of the declared cartridge yield value.....	6
6.2 Test data reporting.....	7
6.3 Declaration of the yield.....	7
Annex A (informative) Examples of fade	8
Annex B (informative) Process flowchart and examples	9
Annex C (normative) Standard test page	13
Annex D (normative) Sample reporting form	19
Annex E (informative) Comparison of yield for two printing systems	22
Bibliography	24

This is a preview of ISO/IEC 19752:2025. [Click here to purchase the full version from the ANSI store.](#)

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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 document 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 or www.iec.ch/members_experts/refdocs).

ISO and IEC draw attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO and IEC take no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO and IEC had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents and <https://patents.iec.ch>. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

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. In the IEC, see www.iec.ch/understanding-standards.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 28, *Office equipment*.

This third edition cancels and replaces the second edition (ISO/IEC 19752:2017), which has been technically revised.

The main changes are as follows:

- the Scope was limited " This document is not for use with printers whose minimum printable size is equal to or greater than A3 or for photo-only printers";
- editorial changes;
- requirements were added in [4.4](#) regarding environmental conditions.

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 and www.iec.ch/national-committees.

This is a preview of ISO/IEC 19752:2025. [Click here to purchase the full version from the ANSI store.](#)

The purpose of this document is to provide a process for determining the page yield for toner cartridges for monochromatic print systems using a standard office consumer type test page. In the case where a cartridge can be used in multiple printer models, only one yield test is performed as long as the difference between printer models does not impact yield.

A cartridge supplier can choose to use more than one market identifier for a single physical cartridge. In this case, only one yield test is performed as long as there are no differences in the cartridges other than market identifiers.

This document prescribes the following:

- the test method that manufacturers, test laboratories, etc. used to determine cartridge yield;
- the method for determination of declared yield values from the test results;
- the appropriate method of describing the yield of cartridges in the documentation supplied to the consumer by the manufacturer.

The cartridge yield is determined by an end of life judgment, or signalled with either of two phenomena: fade caused by depletion of the useable toner in the cartridge or automatic printing stop caused by a toner out detection function.

NOTE A comparison of yield for two printing systems is shown in [Annex E](#).