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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

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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

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Foreword

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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.

Introduction

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.