



Xerox Cartridges for non-Xerox Printers Compliances and Certifications

Setting the Standard in Quality, Page Yield, and Sustainability



©2013 Xerox Corporation. All rights reserved. XEROX® and XEROX and Design® are trademarks of the Xerox Corporation in the United States and/or other countries.

Other company trademarks are also acknowledged.

Document Version: 2.0 (December 2013).

Table of Contents

1	Compliances	2
1.1	REACH	2
1.2	CE Mark	2
1.3	European Ecolabel	2
1.4	RoHS.....	3
1.5	ISO/IEC 19752 and ISO/IEC 19798	4
1.6	DIN 33870	5
2	Certifications	6
2.1	ISO 9001:2008	6
2.2	ISO 14001:2004	6
2.3	STMC	6

1 Compliances

1.1 REACH

REACH is the European Community Regulation on chemicals and their safe use (EC 1907/2007). It deals with the **R**egistration, **E**valuation, **A**uthorization and **R**estriction of **C**hemical substances. This law came into force on 1st June 2007, with phased deadlines to 2018.

The purpose of REACH is to improve the protection of human health and the environment through a better identification of the inherent properties of chemical substances at an early stage. REACH is also intended to promote innovation and competitiveness of the EU chemicals industry.

Since August 2008, all substances used in Xerox Cartridges for non-Xerox Printers have no SVHC (Substances of very high concern) at or above 0.1% with regard to the most recently published list. We will continue to monitor all developments regarding this directive to ensure continued and complete conformity.

For more information about REACH please click [here](#).

1.2 CE Mark

CE Marking (originally EC mark) is a mandatory conformity mark for products sold within the European Economic Area (EEA). CE marking signifies that the manufacturer has ensured that the product meets all the requirements of the applicable EC Directives. The letters "CE" denotes "Conformité Européenne" ("European Conformity")



Xerox confirms that the European Directive 2004/108/EC (CE marking) does not apply to Toner or Inkjet consumables used and discarded independently from the relevant printer as these are not, by themselves, capable of any electromagnetic interference in communications of any kind (Chapter 1, Article 1, Paragraph 3 of the above mentioned legislation). All Xerox Cartridges for non-Xerox Printers therefore conform to the conditions of this directive.

1.3 European Ecolabel

The European Ecolabel was established in 1992 with the purpose of promoting products and services that are kinder to the environment. Products and services certified with the EU Ecolabel carry the flower logo, allowing easy identification.

The EU Ecolabel covers a wide range of products and services such as Cleaning, Clothing, Do-it-yourself, Electronic Equipment, Floor coverings, Household Appliances, Lubricants, Other Household items, Paper and Services.



Ecolabel criteria are based on studies which analyse the impact of the product or service on the environment, starting from raw material extraction in the pre-production stage right through to production, distribution and disposal.

The European Commission is studying the inclusion of Imaging Equipment and currently toner cartridges are under consideration.

1.4 RoHS

The RoHS (Restriction of Certain Hazardous Substances) is a European Directive aiming to restrict and control the use of certain hazardous substances in the production of new electrical and electronic equipment (EEE) such as:



- lead
- cadmium
- mercury
- hexavalent chromium
- polybrominated biphenyl (PBB)
- polybrominated diphenyl ether (PBDE)

The RoHS European Directive is a partner directive to the WEEE Directive (Waste in Electrical and Electronic Equipment) that controls the disposal and recycling of EEE.

Xerox confirms that the European Directive 2002/95/EC (RoHS) does not apply to Toner or Inkjet consumables used and discarded independently from the relevant printer. All Xerox Cartridges for non-Xerox Printers therefore are out of scope of this directive.

To learn more about the RoHS European Directive please click [here](#).

1.5 ISO/IEC 19752 and ISO/IEC 19798

ISO/IEC 19752 is an ISO standard method for the determination of toner cartridge yield for monochrome laser devices.

ISO/IEC 19798 is an ISO standard method for the determination of toner cartridge yield for colour laser devices.

ISO/IEC 19752 & ISO/IEC 19798 objective is to provide a comprehensive and rigorous definition of the measurement process with the purpose of creating clear and objective criteria for comparison of cartridge yields. In particular, the standard provides a detailed definition and description of:

- Test preparations and environmental conditions
- Sample size (at least three printers with three cartridges each)
- Type of paper
- Printer settings
- Print test page (PDF format)
- Cartridge and printer source
- Error and process handling
- End-of-life criteria (for example, how many times the cartridges should be shaken)

Xerox confirms the majority of its products for non-Xerox printers are tested for page yield utilizing the ISO methodology. Those not tested utilizing the ISO procedure have been tested using a 5% area coverage test method. Xerox references the test method performed on each cartridge in the Replacement Cartridge Range Brochure available on Xerox.com

From the ISO19752 abstract below:

*“ISO/IEC 19752:2004 is limited to evaluation of toner cartridge yield **for toner containing cartridges** (i.e. all-in-one toner cartridges and toner cartridges without a photoconductor) for **monochrome electro-photographic printers.**”*

From the ISO19798 abstract below:

*“ISO/IEC 19798:2007 is limited to evaluation of toner cartridge page yield **for toner-containing cartridges** (i.e. all-in one toner cartridges and toner cartridges without a photoconductor) for colour electro-photographic printers. It can also be applied to the printer component of any multifunctional device that has a digital input printing path, including multi-function devices that contain electro-photographic printer components.”*

1.6 DIN 33870

DIN stands for [Deutsches Institute für Normung](#) (German Institute for Standardization) and describes the requirements and testing for the preparation of refilled toner modules for electro-photographical printers, copiers and facsimile machines.



Xerox Cartridges for non-Xerox Printers are produced and tested in accordance with the procedures defined in the DIN 33870 standard.

2 Certifications

Xerox Cartridges for non-Xerox Printers display key certifications and partnerships that demonstrate the ongoing commitment to quality and environmental responsibility.

2.1 ISO 9001:2008

ISO 9001:2000 is a family of standards and guidelines for quality in the manufacturing and service industries from the International Organization for Standardization (ISO).



ISO 9001:2008 is the most comprehensive level of the ISO 9000:2000 series and it covers everything from design and development through production and distribution of products and services. The overall objective is to establish a system to improve product quality and reliability.

The production process of Xerox Cartridges for non-Xerox Printers is certified with ISO 9001:2008.

2.2 ISO 14001:2004

ISO 14001:2004 is the international specification for an environmental management system (EMS). It specifies requirements for establishing an environmental policy, determining environmental aspects and impacts of products/activities/services, planning environmental objectives and measurable targets, implementation and operation of programs to meet objectives and targets, checking and corrective action and management review.



The production process of Xerox Cartridges for non-Xerox Printers is certified with ISO 14001:2004.

2.3 STMC

STMC (Standardized Test Methods Committee) is a global committee formed to find and promote standardized test methods for the printer cartridge industry. The test methods are used to evaluate the performance of a toner printer cartridge. When using standardized test methods, it is possible to evaluate a cartridge anywhere and obtain the same test results independently of who tests it.



STMC uses certain ASTM (American Society for Testing and Materials) test methods such as ASTM F 1856 for yield and ASTM F 2036 for image density and background. The test methods are used only to evaluate a finished cartridge in comparison to another cartridge, typically an OEM cartridge. It does not measure components.

Xerox Cartridges for non-Xerox printers are produced in STMC certified facilities.