Xerox Cartridges for non-Xerox Printers

Compliances and Certifications

Setting the Standard in Quality, Page Yield, and Sustainability

xerox ®

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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 **Ch**emical 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.

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 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.

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 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 color 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."*