

Annex 1 to the Contract pursuant to DE-UZ 177

Blue Angel Eco-Label for Remanufactured toner cartridges and ink cartridges for printers, copiers and multifunction devices

Please use only this form!

Applicant's Declaration

Applicant's full address:

The ink cartridges and toner cartridges are recycled at the following sites:

Paragraph 3.1.1 of the Basic Criteria: Collection and Disposal

The applicant provides an efficient collection service and is certified under DIN EN ISO 14001.

The following company provides an efficient collection service for the applicant and is certified under DIN EN ISO 14001 (or presents an equivalent process description):

Empty and used ink cartridges and toner cartridges (including their components) supplied by the applicant are recovered for the purpose of remanufacturing as part of the take-back system.

Where the cartridges cannot be remanufactured in compliance with the process steps described in DIN 33870-1 or DIN 33870-2, and DIN 33871-1 for technical reasons, the return as well as a proper recycling or disposal of the used products is nevertheless ensured.

Toner residues are packed in dust-proof containers and delivered to material or thermal utilization facilities.

The attached Annex 4 provides more details on the take-back scheme.

Paragraph 3.1.2 of the Basic Criteria: Remanufacturing of toner cartridges

The toner cartridges are remanufactured in accordance with remanufacturing instructions detailing the recycling process.

The functionality of the toner cartridges is ensured by tests and documented in accordance with DIN 33870-1 or DIN 33870-2. Remanufacturing and documentation include the following process steps:

- Incoming goods inspection and marking of quality-relevant components, such as purchased parts and raw materials.
- Inspection of empty and used toner cartridges. The applicant must ensure the use of empty cartridges that had been marketed by the original equipment manufacturers (OEMs) or re-manufactured in accordance with DIN 33870-1 and DIN 33870-2.

The following steps can be carried out during the remanufacturing process:

- Disassembly of the toner cartridge, if this is required to maintain its quality;
- Removal of the residual toner;
- Cleaning of the components intended for reuse;
- Removal or permanent concealing of the OEM part number and OEM logo¹;
- Filling of the toner container with the specified amount and type of toner as shown in the parts list;
- Assembly of the specified components according to the parts list;
- Testing the functionality of each toner module on a printer;
- Visual inspection of the finished toner cartridge;
- Labelling of the toner cartridge with a serial number or batch number to ensure the traceability of the remanufacturing process.

The remanufactured toner cartridges consist of at least 75% (percent by mass) recycled parts - not counting the amount of toner filled into the cartridge. The following parts that have a direct impact on the print quality are excluded:

- OPC (organic photo conductor);
- Chip;
- Wiper Blade;
- Doctor/DO Blade.

For remanufactured toner cartridges with a yield that is at least 50% greater than that of the original toner cartridge (efficiency rate $EZ \geq 1.5$ according to DIN 33870-1 or DIN 33870-2, see Section 2.24 of DIN 33867), the weight of the replaced toner containers can be ignored when calculating the proportion of remanufactured parts.

The attached Annex 2 lists the toner cartridges applying for the Blue Angel eco-label.

¹ Deviating from DIN 33870-1 or 33870-2, the removal of the OEM article number and/or logo can be waived. The clear labelling as a refilled toner cartridge is mandatory according section 3.1.6.

Paragraph 3.1.3 of the Basic Criteria: Remanufacturing of ink cartridges

The ink cartridges are remanufactured in accordance with remanufacturing instructions that describe the remanufacturing process.

The functionality of the ink cartridges is ensured by tests and documented in accordance with DIN 33871-1 (Section 7). Remanufacturing and documentation follow the process steps according to DIN 33871-1 (Section 4)²:

The remanufactured ink cartridge consists of at least 75% (percent by mass) of recycled parts - not counting the amount of ink filled into the cartridge. The following parts that have a direct impact on the print quality are excluded:

- Chip;

For remanufactured ink cartridges with a yield that is at least 50% greater than that of the original ink cartridge (efficiency rate $EZ \geq 1.5$ according to DIN 33871-1, see Section 3.6), the weight of the replaced ink containers can be ignored when calculating the proportion of remanufactured parts.

The attached Annex 2 lists the ink cartridges modules applying for the Blue Angel eco-label.

Paragraph 3.1.4 of the Basic Criteria: Requirements for housing parts

New parts added to the ink cartridges or toner cartridges by the applicant by way of addition or replacement do not contain any halogenated polymers.

The plastic parts added to the cartridges do not contain PBDEs (polybrominated diphenyl ethers) or PBBs (polybrominated biphenyls) as flame retardants.

Plastic parts over 25 grams weight are marked in accordance with ISO 11469:2017-01 taking ISO 1043, Parts 1 to 4, into consideration.

Paragraph 3.1.5 of the Basic Criteria: Documentation

Enclosed a report of an independent expert body (annex 5, annex 2 signed by an independent expert body)

This report is submitted to RAL gGmbH every two years.

Toner cartridges: With regards to the obligation to provide information, the dealer (distributor) is free to choose whether to provide the information required according to Section 7.5 of DIN 33870-1 or DIN 33870-2 on its own website or to provide a link to the relevant information on the manufacturer's website. If the dealer provides this information on its own website, the applicant is responsible for ensuring that he/she complies with the requirements according to DIN 33870-1 or DIN 33870-2.

Ink cartridges: With regards to the obligation to provide information, the dealer (distributor) is free to choose whether to provide the information from the test report (Section 8 of DIN 33871-1) on its own website or to provide a link to the relevant information on the manufacturer's website.

² Deviating from DIN 33870-1 or 33870-2, the removal of the OEM article number and/or logo can be waived. The clear labelling as a refilled ink cartridge is mandatory according section 3.1.6.

Paragraph 3.1.6.1 of the Basic Criteria: Ink cartridges/toner cartridges

Remanufactured ink cartridges or toner cartridges are clearly labelled as such in accordance with Section 7 of standards DIN 33870-1 or DIN 33870-2 or Section 9 of standard DIN 33871-1.

In addition, the Blue Angel logo (DE-UZ 177) is also depicted on the toner cartridge or ink cartridge. (voluntary labelling, not mandatory).

Products labelled with the environmental label do not have the same name as other cartridges produced by the same manufacturer.

Please find attached to this application supporting documents. (Annex 15)

Paragraph 3.1.6.2 of the Basic Criteria: Packaging

The information on the packaging meet the requirements of Section 7.3 of standards DIN 33870-1 or 33870-2 and Section 9.3 of DIN 33871-1. The Blue Angel logo (DE-UZ 177) is additionally displayed on the packaging.

The plastics used in packaging do not contain halogenated polymers. The used plastics used are marked in accordance with the German Packaging Ordinance (Deutsche Verpackungsverordnung), as amended.

Paper and cardboard in the packaging contain at least the following proportions of recycled fibres for the following packaging materials:

- Paperboard: 80%
- Corrugated cardboard: 25%
- Solid fibreboard: 40%
- Wound tubes: 90%

Alternatively: The packaging design is as simple as possible and takes in account easy reusability and the environmental impact related to disposal of the packaging.

The distributor provides detailed information, including the exact proportion of recycled materials used in the packaging. (Annex 3).

Please find attached the layout of the packaging (Annex 16)

Paragraph 3.1.6.3 of the Basic Criteria: User information and instructions for handling the toner cartridges and ink cartridges

The user information meets the requirements of Section 7.4 of standards DIN 33870-1 or 33870-2.

Moreover, the user information provides the user with detailed instructions on the proper handling of toner / ink cartridges. The user information advises the user not to open the toner cartridge by force and to take precautions to avoid inhaling the dust and direct skin contact in the case of accidental toner spillage due to improper handling. Also, the user information includes instructions on what to do if, nevertheless, there is skin contact. The user information underlines that toner / ink cartridges must be kept out of the reach of children.

Please find attached the user information for this application (Annex 7).

Paragraph 3.2.4 of the Basic Criteria: Requirements for the toner and inks used

The toners and inks must not contain any substances as constituent components that fulfil the conditions according to Table 2 of the criteria DE-UZ 177.

In addition the toners and inks must not contain any substances as constituent components included in the so-called "list of candidates" in accordance with Article 59 of the REACH Regulation. The version of the list of candidates at the time of application is valid.

Paragraph 3.3.4 of the Basic Criteria: Fitness for use

Printing modules or toner containers are sealed so as to prevent toner dust from escaping during storage and transport.

Remanufactured modules or cartridges that have been refilled with monochrome or colour toner or ink that comply with the requirements in standards DIN 33870-1 (for monochrome printing equipment), DIN 33870-2 (for 4-colour printing equipment) or DIN 33871-1 (ink cartridges). The test results are documented for every type of ink / toner cartridge in accordance with Appendix C of the above-named standards.

Please find attached the test reports for the ink / toner cartridges for this application (Annex 14) or state the link to the corresponding website in Annex 2.

For each type of remanufactured ink / toner cartridge and for each product range in the case of combined orders, the distributor provides a safety data sheet (according to Article 6 of the German Ordinance on Hazardous Substances and Regulation (EG) 1907/2006 (REACH)) for the ink / toner used in the cartridges in German or in English.

Please find attached the MSDS for the ink / toner cartridges. (Annex 11a)

Place:

Date: