

# Epson Ink Cartridge Yield Testing

## USING THE ISO STANDARD

The proposed ISO/IEC FCD 24711 and 24712 standard was created by the International Standards Organization for Standardization (ISO) with the support of national standards institutes throughout the world, independent experts and industry representatives. Representatives from Epson, Canon, HP, Lexmark and other industry-leading manufacturers worked extensively to achieve a standard that provides customers with a reasonable basis for comparing printer performance. The ISO has authorized manufacturers to use this standard in 2006, while it awaits a final vote by the national standards institutes.

The entire ISO/IEC FCD 24711 and 24712 standard and test patterns, will be available from the ISO after formal enactment. The following is a brief summary of Epson's yield testing, conducted in accordance with this standard:

- Tests are conducted with at least three printers, each using at least three cartridges of each model, not including the first set of installed cartridges.
- A suite of five patterns (shown below) is printed continuously, in consecutive order. Cartridges are replaced when the printer indicates cartridges are expended and will not print without replacing the cartridge.
- Testing is conducted at a controlled temperature in Default Mode on plain paper with print commands from a late model PC with a Microsoft Windows operating system.
- In recognition of various factors that can affect yields, declared yields are rounded down (not up) in amounts that are at least sufficient to fulfill the standard deviation formula built into the ISO standard to assure accuracy and reliability.

### About ISO

ISO is the preeminent international standards organization located in Geneva, Switzerland ([www.iso.org](http://www.iso.org)). It is comprised of the national standards institutes of over 150 countries. ISO standards are distilled through an international consensus to provide transparent standards for product development and marketing for the benefit of consumers and sustainable competition. The resulting ISO standards are widely respected and accepted by public and private sectors internationally. The imaging and office products industries, in particular, have benefited from many ISO standards, including toner and ink cartridge yield standards, and will continue to benefit from additional standards still in development.

### Print patterns used during testing

