INTERNATIONAL STANDARD

ISO/IEC 17823

Colour terminology for office colour equipment

Terminologie couleur pour équipement couleur de bureau

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 28, *Office equipment*.

Introduction

Technical colour terms have been published in various fields of standards such as colour photography, graphic technology printing and computer graphics. However, no standard colour terms have been published for office equipment.

As a result, misunderstandings between users and colour office equipment providers can occur when terms are interpreted differently.

The purpose of this International Standard is to provide terminology for use by office equipment providers to help customers use their colour equipment effectively.

Colour terminology for office colour equipment

1 Scope

This International Standard provides definitions for colour terms used with office equipment, in particular for use with colour scanning and printing devices that have digital imaging capabilities, including multi-function devices.

This International Standard is not intended to replace terms and definitions published in documents or user interfaces issued or created by manufacturers.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1
colour balance
adjustment of colour channel gains or processing

2.1.1
grey balance
set of tone values for cyan, magenta and yellow that are expected to appear as an achromatic grey under specified viewing conditions when printed using the specified printing conditions

Note 1 to entry: The user can choose between the following two practical definitions and one theoretical definition of grey, depending upon the particular context.

a) practical definitions:

  1) a colour having the same CIELAB a* and b* values as the print substrate;

  2) a colour that has the same CIELAB a* and b* values as a half-tone tint of similar L* value printed with black ink;

b) theoretical definition:

  1) the colourimetric definition of grey is when the CIELAB a* and b* values are both equal to 0.

[SOURCE: ISO/TS 10128:2009, 3.3, modified]

2.2 black

2.2.1
composite black
printing black with multiple colourants

2.2.2
pure black
black generated only in black colourant in a printing device

2.2.3
rich black
black generated by a mixture of black colourant and other colourants in a printing device