



International
Standard

ISO 787-24

**General methods of test for
pigments and extenders —**

Part 24:

**Photometric methods for
determining the relative tinting
strength of coloured pigments and
the relative scattering power of
white pigments**

Méthodes générales d'essai des pigments et matières de charge —

*Partie 24: Méthodes photométriques pour la détermination
du pouvoir colorant relatif des pigments colorés et du pouvoir
diffusant relatif des pigments blancs*

**Third edition
2026-10**

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Foreword

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This document was prepared by Technical Committee ISO/TC 256, *Pigments, dyestuffs and extenders*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 298, *Pigments and extenders*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 787-24:1985), which has been technically revised.

The main changes are as follows:

- the introduction has been deleted;
- the normative references have been updated;
- in [Clause 3](#), the definitions have been updated and, where necessary, aligned with ISO 18451-1;
- [3.1.3](#) “absorbance index” has been changed to “absorption index”;
- [4.1](#) has been added;
- in [4.2](#), “ K_r ” has been replaced by “ C_{rel} ” as symbol for relative tinting strength;
- in [4.2](#) and [8.1.4](#), the method has been opened to other tinting strength criterion, including a reference to ISO 18314-2;
- the characteristic “nigrometer index value” and its requirement have been changed to “blackness value M_Y ” for the characteristic and to “203 to 215” for the requirement, and ISO 18314-3 has been added as a test method ([Clause 5](#), [Table 2](#));
- the requirement for “specific surface area (BET)” has been changed to “25 m²/g to 33 m²/g” for carbon black pigment ([Clause 5](#), [Table 2](#));
- the requirement for the pH value has been changed to “6 to 9” for carbon black pigment ([Clause 5](#), [Table 2](#));

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- ISO 9277 has been added as the test method for the specific surface area (BET) for fumed silica ([Clause 5](#), [Table 3](#));
- in [6.3](#), a reference was included which described the possibility of measuring paste films on a moving carrier without any contact;
- in [6.4](#), additional light sources for the tristimulus colorimeter were included;
- [Annex A](#) has been modified and subdivided into [A.1](#) and [A.2](#);
- Annex B has been deleted;
- a bibliography has been added.

A list of all parts in the ISO 787 series can be found on the ISO website.

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