
**Preparation of steel substrates before
application of paints and related
products — Tests for the assessment
of surface cleanliness —**

**Part 4:
Guidance on the estimation of the
probability of condensation prior to
paint application**

*Préparation des subjectiles d'acier avant application de peintures
et de produits assimilés — Essais pour apprécier la propreté d'une
surface —*

*Partie 4: Principes directeurs pour l'estimation de la probabilité de
condensation avant application de peinture*





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Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Probability of condensation	1
4	Instruments	2
5	Procedure	3
6	Test report	3
Annex A (informative) Table for determination of dew-point		5
Bibliography		26

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 12, *Preparation of steel substrates before application of paints and related products*.

This second edition cancels and replaces the first edition (ISO 8502-4:1993), which has been technically revised with the following changes:

- a) normative references have been updated;
- b) mercury thermometer has been replaced by thermometer in [Clause 4 a](#));
- c) additional information is given in the note to [Clause 4 b](#));
- d) combined instrument described in [Clause 4 d](#));
- e) notes on instrument properties have been added in [Clause 4](#);
- f) in [5.2](#), “at a given atmospheric pressure” has been added to read “Their parameters are air temperature and relative humidity at a given atmospheric pressure”;
- g) in [5.3](#), it has been added that non-contact thermometers should not be used;
- h) [5.4](#) has been changed to account for the definition of high and low risk of condensation given in [Clause 3](#);
- i) description of the procedure with combined instruments has been added in [5.5](#).
- j) a reference to the formula used in [Annex A](#) has been added.

ISO 8502 consists of the following parts, under the general title *Preparation of steel substrates before application of paints and related products — Tests for the assessment of surface cleanliness*:

- *Part 2: Laboratory determination of chloride on cleaned surfaces*
- *Part 3: Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method)*

- *Part 4: Guidance on the estimation of the probability of condensation prior to paint application*
- *Part 5: Measurement of chloride on steel surfaces prepared for painting (ion detection tube method)*
- *Part 6: Extraction of soluble contaminants for analysis — The Bresle method*
- *Part 9: Field method for the conductometric determination of water-soluble salts*
- *Part 11: Field method for the turbidimetric determination of water-soluble sulfate*
- *Part 12: Field method for the titrimetric determination of water-soluble ferrous ions*