



ISO 4628-3

Paints and varnishes — Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance —

**Part 3:
Assessment of degree of rusting**

Peintures et vernis — Évaluation de la quantité et de la dimension des défauts, et de l'intensité des changements uniformes d'aspect —

Partie 3: Évaluation du degré d'enrouillement

**Fourth edition
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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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This fourth edition cancels and replaces the third edition (ISO 4628-3:2016), which has been technically revised.

The main changes are as follows:

- the title has been shortened;
- the normative references have been updated;
- term [3.1](#), “degree of rusting” has been deleted;
- new terms [3.1](#) “red rust”, [3.2](#) “white rust” and [3.3](#) “rust traces” have been added;
- [Clause 4](#) on symbols and abbreviations has been added;
- “rusted area” has been changed to “corroded area” in the entire text;
- a note on the original size of the figures has been added to the former [Clause 4](#), which now is [Clause 5](#);
- [Table 1](#) for designating the size of rusting has been added;
- the percentage of the corroded area in [Figure A.5](#) has been corrected;
- the assessment of white rust together with new pictorial standards has been added;
- the assessment of the degree of rusting by estimating the corroded area in per cent has been added;
- point “d) the method of assessment (method 1 or method 2) which was used;” has been added to the test report in [Clause 8](#);

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- the former [Annex B](#) has become [Annex C](#);
- in [Annex C](#), the correlation with the ASTM rust scale has been adjusted to ASTM D610-08.

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ISO 4628-1 describes the system used for designating the quantity and size of defects and the intensity of changes in appearance of coatings, and it outlines the general principles of the system. This system is intended to be used, in particular, for defects caused by ageing and weathering, and for uniform changes such as colour changes, for example yellowing.

The pictorial standards for red rust have been selected from the “European rust scale” published by the European Confederation of Paint, Printing Ink and Artists' Colours Manufacturers' Associations (CEPE), Brussels. The correlation between the ISO scale and the “European rust scale” is given in [Table C.1](#).

The correlation between the ISO scale and the rating system of ASTM D610-08 is given in [Table C.2](#).