

British Standard Methods of test for paints

Part H2. Designation of degree of blistering

[ISO title: Paints and varnishes — Evaluation of degradation of paint coatings — Designation of intensity, quantity and size of common types of defect — Part 2 : Designation of degree of blistering]

Méthodes d'essai des peintures

Partie H2. Désignation du degré de cloquage

Verfahren zur Prüfung von Anstrichstoffen

Teil H2. Bezeichnung des Grades der Blasenbildung

It is recommended that this Part be read in conjunction with the general information in the Introduction to BS 3900, issued separately.

National foreword

This Part of BS 3900 forms part of a revision of BS 3900 : Part H1 : 1980 and has been prepared under the direction of the Pigments, Paints and Varnishes Standards Committee. It is identical with ISO 4628/2-1982 'Paints and varnishes — Evaluation of degradation of paint coatings — Designation of intensity, quantity and size of common types of defect — Part 2 : Designation of degree of blistering', published by the International Organization for Standardization (ISO).

BS 3900 : Part H1 : 1980, which was identical with ISO 4628/1-1978, presented in section one the general principles of the system of evaluation adopted in the standard and, also, detailed in sections two and three the rating schemes for assessing respectively the degree of blistering and the degree of rusting. In 1982, however, ISO 4628/1 was re-published in three separate Parts, Part 1 : 'General principles and rating schemes', Part 2 : 'Designation of degree of blistering', and Part 3 : 'Designation of degree of rusting'; these three Parts are now implemented as Parts H1, H2 and H3, respectively, of BS 3900, this Part corresponding to section two of BS 3900 : Part H1 : 1980.

Thus this standard, together with BS 3900 : Parts H1 and H3, which are published simultaneously, supersedes BS 3900 : Part H1 : 1980, which is withdrawn.

Terminology and conventions. The text of the international standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'British Standard'; and wherever the words 'this part of ISO 4628' and 'ISO 4628/2' appear, they should be read as 'this Part of BS 3900' and 'BS 3900 : Part H2' respectively.

Cross-references

International standards	Corresponding British Standards
	BS 3900 Methods of test for paints
ISO 4628/1-1982	Part H1 : 1983 Designation of intensity, quantity and size of common types of defect : general principles and rating schemes (Identical)
ISO 4628/3-1982	Part H3 : 1983 Designation of degree of rusting (Identical)
ISO 4628/4-1982	Part H4 : 1983 Designation of degree of cracking (Identical)
ISO 4628/5-1982	Part H5 : 1983 Designation of degree of flaking (Identical)

The Technical Committee has reviewed the provisions of ASTM D 714-56, to which reference is made in the text for information, and has decided that they are acceptable for use in conjunction with this standard. The illustrations are copyright ASTM, 1916 Race Street, Philadelphia, PA 19103, and are reproduced with permission.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

0 Introduction

This International Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

The other parts of ISO 4628 already published or in course of preparation are :

Part 1 : General principles and rating schemes.

Part 3 : Designation of degree of rusting.

Part 4 : Designation of degree of cracking.

Part 5 : Designation of degree of flaking.

Part 6 : Designation of degree of chalking.¹⁾

Part 1 of ISO 4628 defines the system for designating the quantity and size of common types of defects of paint coatings and outlines the basic principles of the system in respect of designation of the quantity and size of defects, in particular the defects caused by ageing and weathering.

Parts 2 to 6 provide auxiliary pictorial or other reference scales for rating particular types of defect. As far as possible, these scales are based on existing well-established schemes.

1 Scope and field of application

This part of ISO 4628 provides pictorial standards for designating the degree of blistering of paint coatings.

2 Reference

ASTM D 714-56, *Evaluating degree of blistering of paints*.

3 Rating

Rate the density and size of the blisters in a paint coating by means of the pictorial standards reproduced on pages 3 to 6.

These standards illustrate blisters in the respective densities 2, 3, 4 and 5 and each density in the sizes 2, 3, 4 and 5.

NOTE — The photographic reference standards have been adopted from ASTM D 714-56.

The correlation between the ISO and the ASTM rating system is as shown in the table.

Table — Correlation between ISO and ASTM rating systems

Density		Size	
ASTM	ISO	ASTM	ISO
None	0		
(less than few)	1	(smaller than 8)	1
Few	2	8	2
Medium	3	6	3
Medium — Dense	4	4	4
Dense	5	2	5

4 Test report

The test report shall contain at least the following information :

- the type and identification of the product tested;
- a reference to this International Standard (ISO 4628/2);
- the numerical rating of the density of blistering;
- the numerical rating of the size of blistering for example :

blisters 2 (S2)

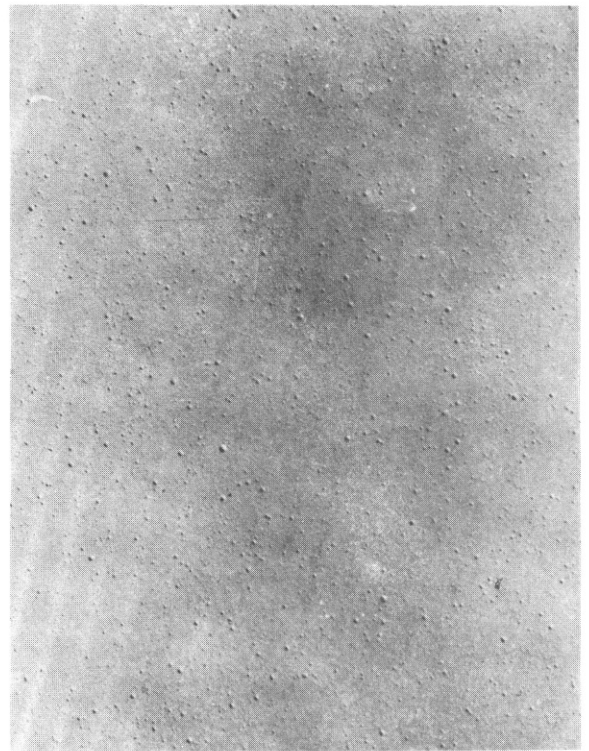
Where a test piece exhibits blisters of varying size, quote as the size rating that of the largest blisters which are numerous enough to be typical of the test piece.

- the date of the examination.

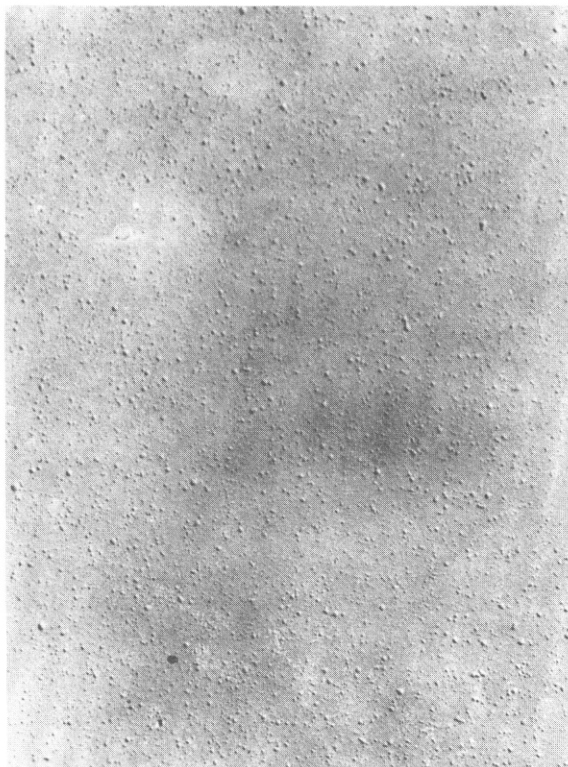
¹⁾ At present at the stage of draft.



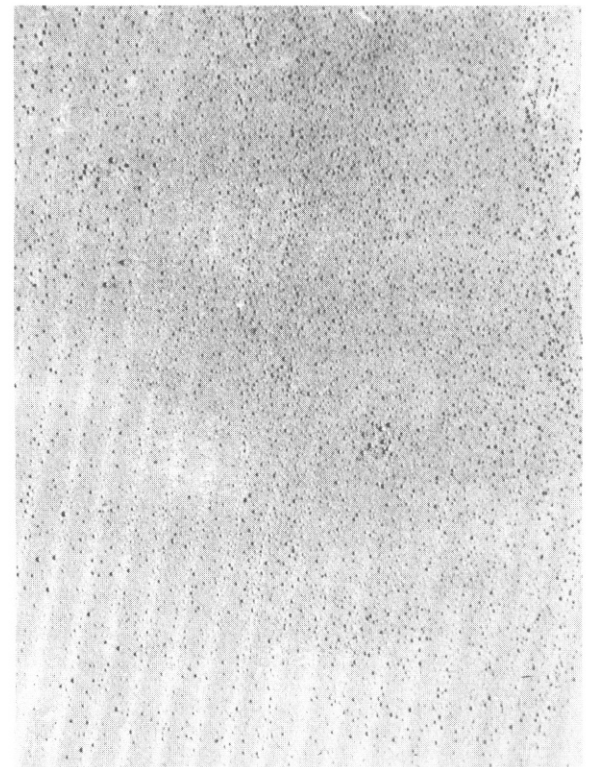
Density 2



Density 3



Density 4



Density 5

Blisters of size 2