

# International Standard



# 4628/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## **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**

*Peintures et vernis — Évaluation de la dégradation des surfaces peintes — Désignation de l'intensité, de la quantité et de la dimension des types courants de défauts — Partie 2 : Désignation du degré de cloquage*

**First edition — 1982-05-01**

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**Ref. No. ISO 4628/2-1982 (E)**

**Descriptors :** paints, varnishes, surface defects, blistering, designations.

Price based on 5 pages

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4628/2 was developed by Technical Committee ISO/TC 35, *Paints and varnishes*.

This International Standard results from the division into separate parts of International Standard ISO 4628/1-1978, which had been approved by the member bodies of the following countries :

Australia	India	Romania
Austria	Iran	South Africa, Rep. of
Brazil	Italy	Sweden
Canada	Korea, Rep. of	Switzerland
Chile	Mexico	Turkey
Czechoslovakia	Netherlands	United Kingdom
France	New Zealand	Yugoslavia
Germany, F. R.	Portugal	

No member body had expressed disapproval of the document.

This International Standard cancels and replaces section two of International Standard ISO 4628/1-1978.

# 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

### 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.<sup>1)</sup>

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 :

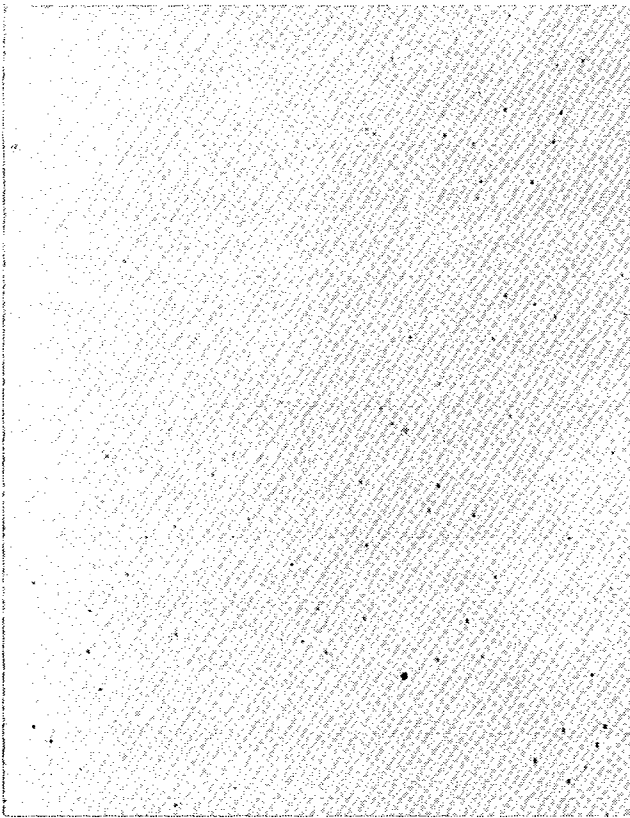
blisters 2 (S2)

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.

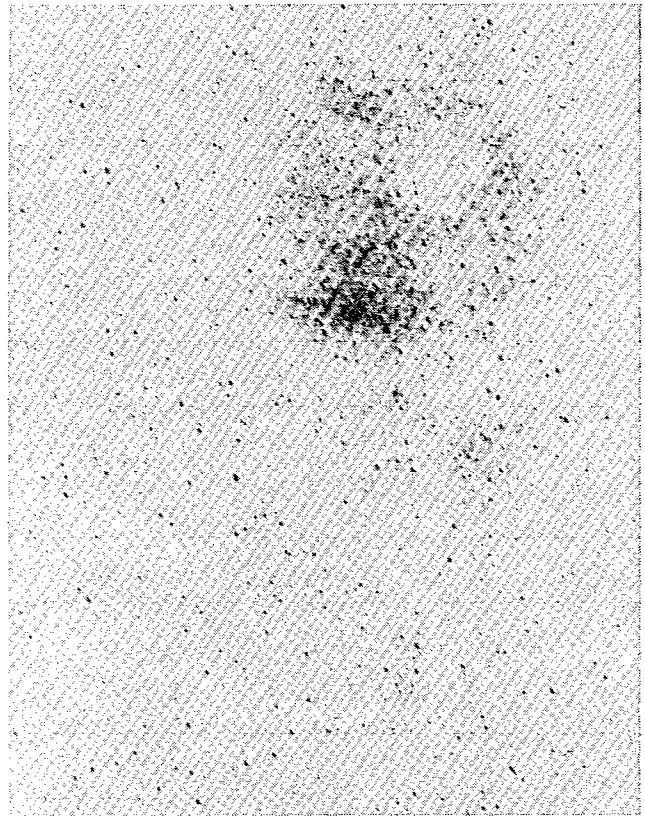
- the date of the examination.

<sup>1)</sup> At present at the stage of draft.

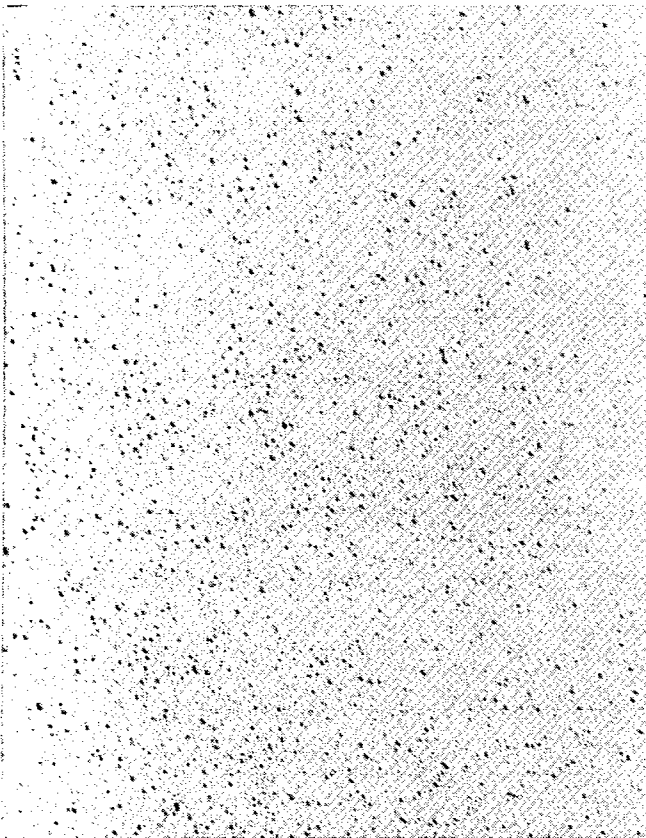
ISO 4628/2-1982 (E)



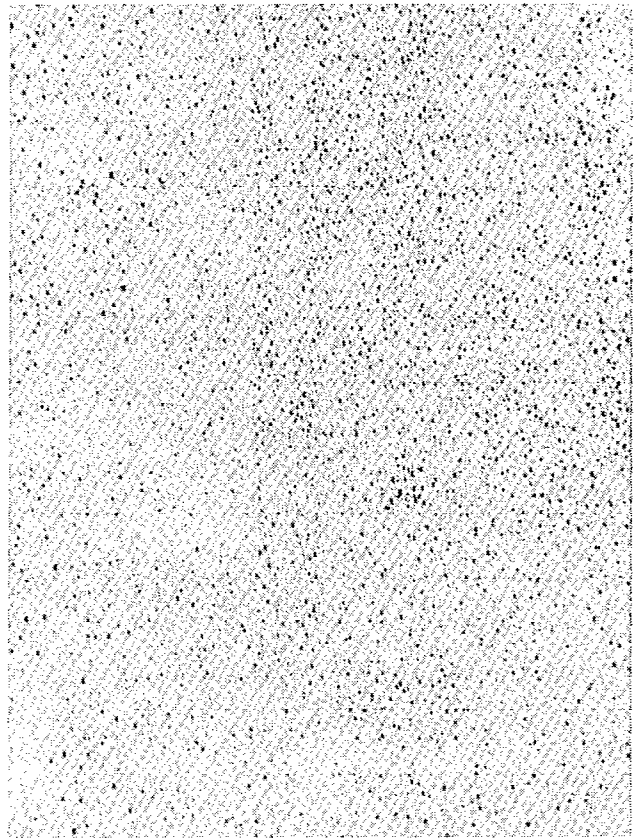
Density 2



Density 3

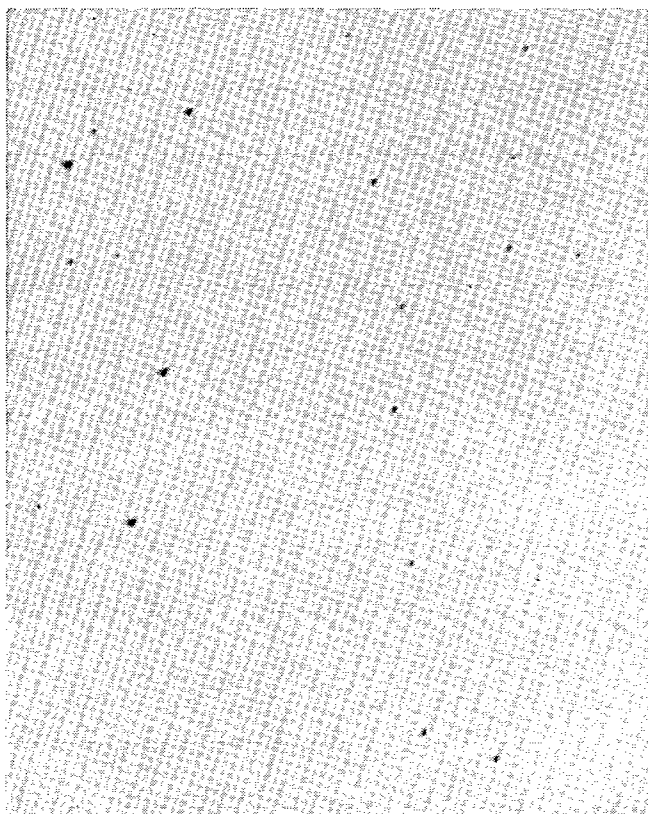


Density 4

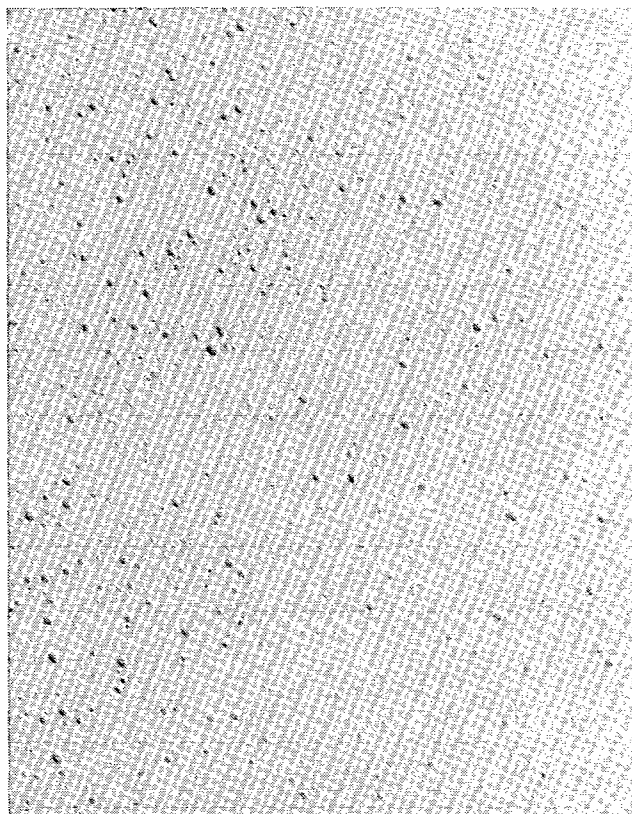


Density 5

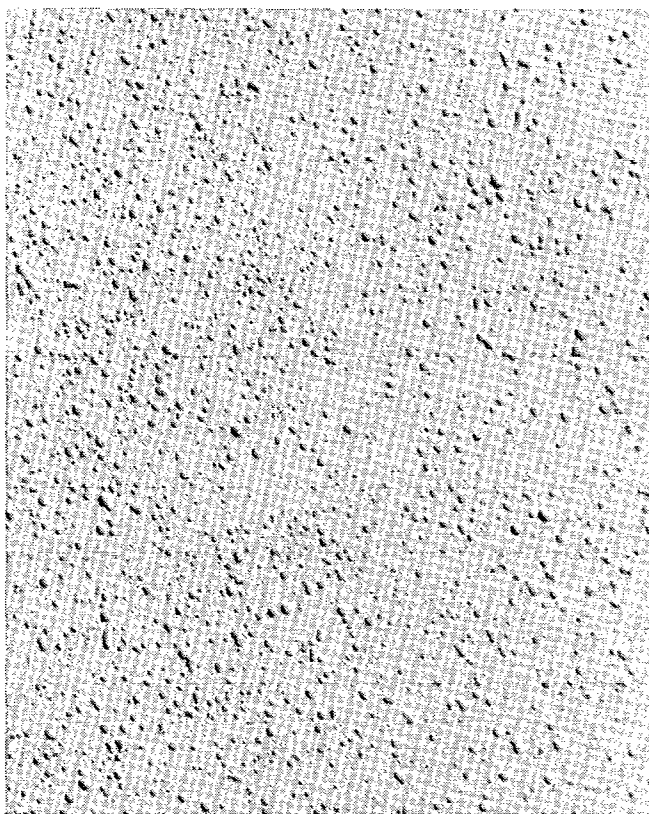
Blisters of size 2



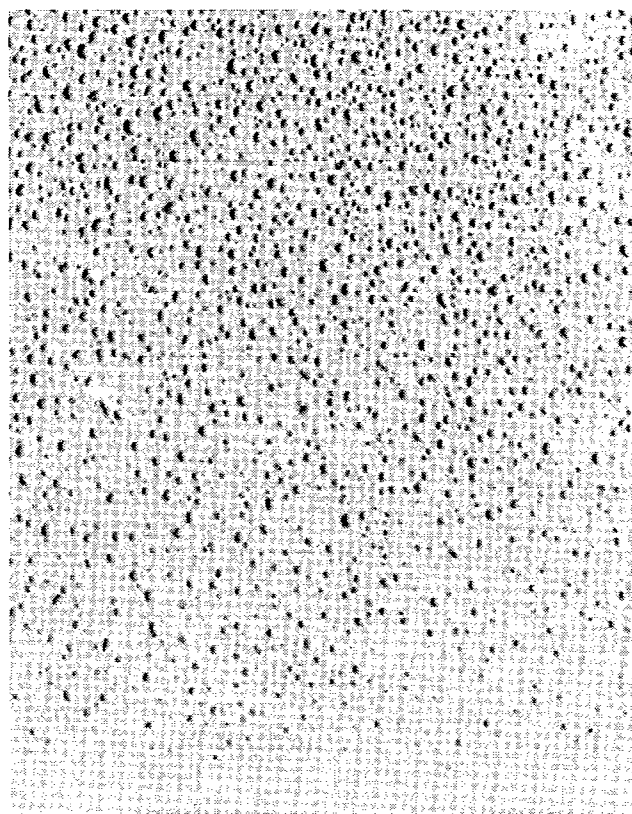
**Density 2**



**Density 3**



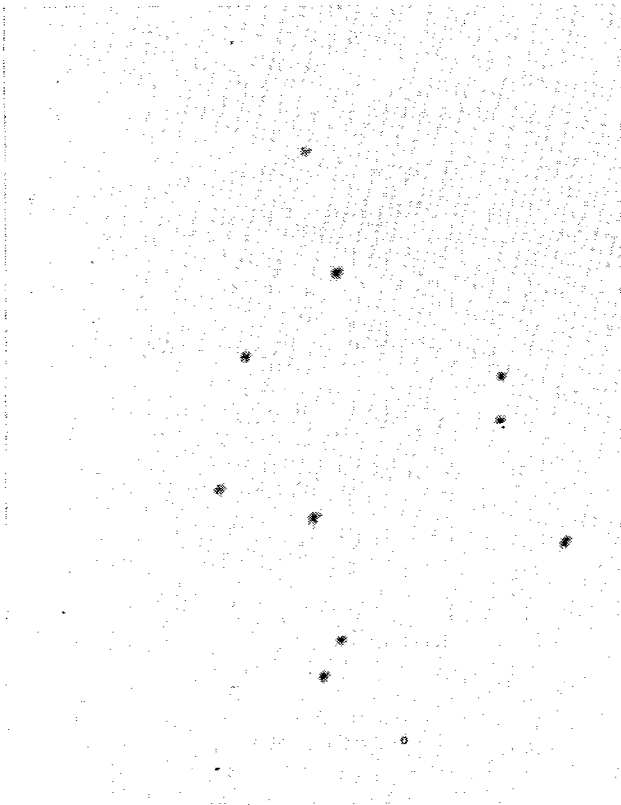
**Density 4**



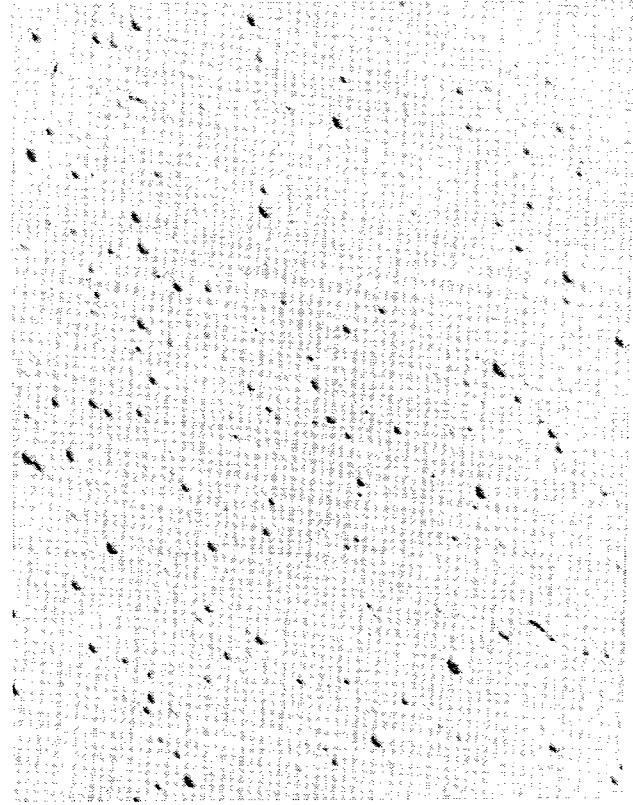
**Density 5**

**Blisters of size 3**

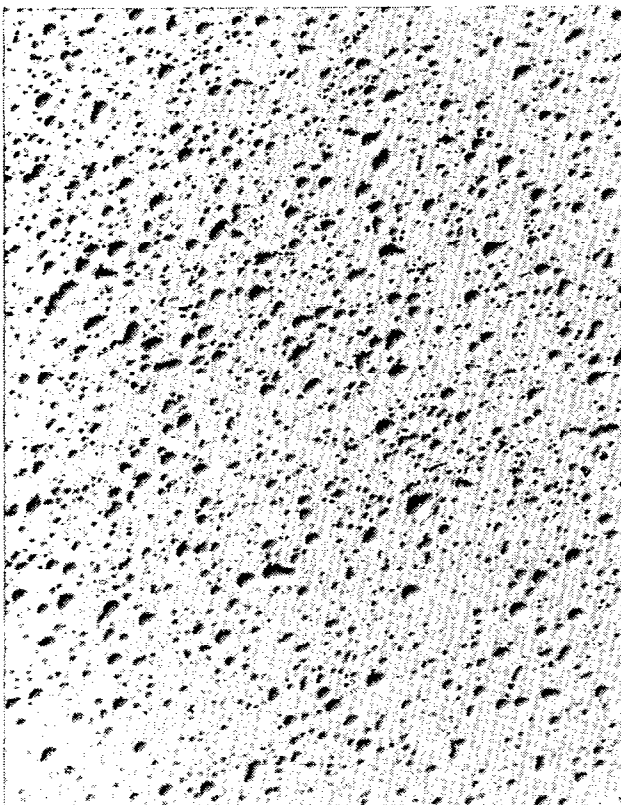
## ISO 4628/2-1982 (E)



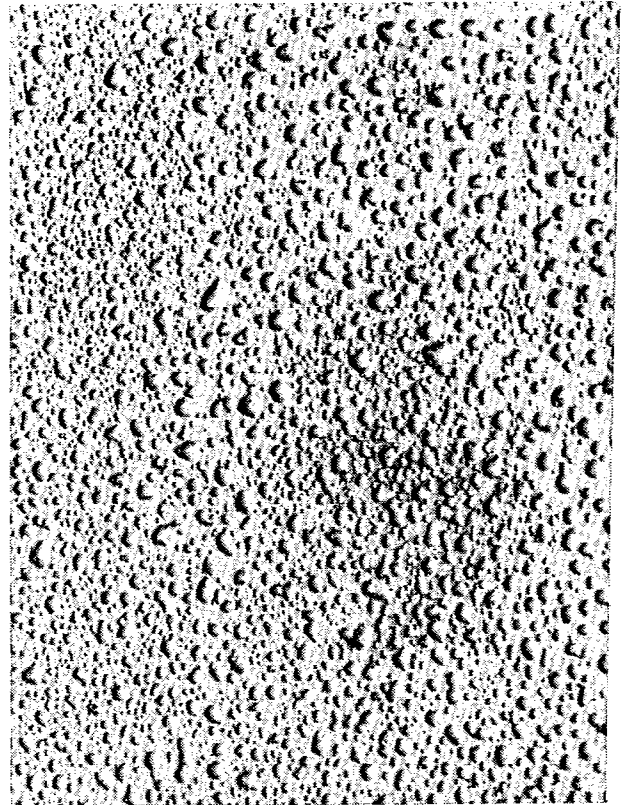
Density 2



Density 3



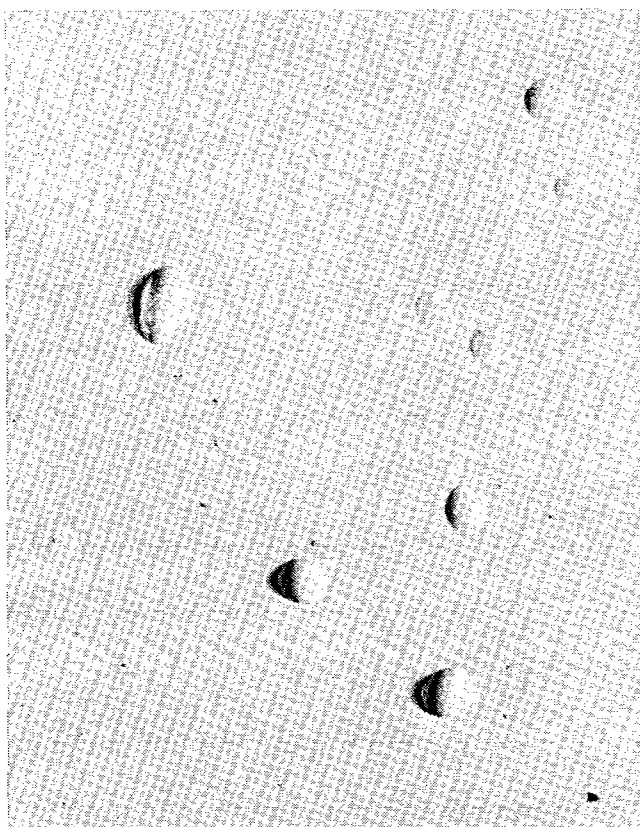
Density 4



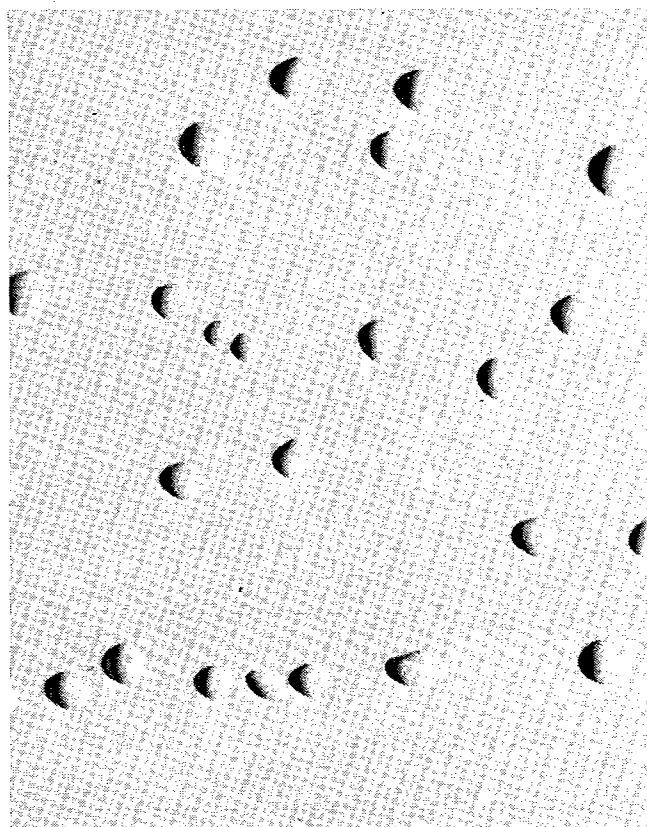
Density 5

Blisters of size 4

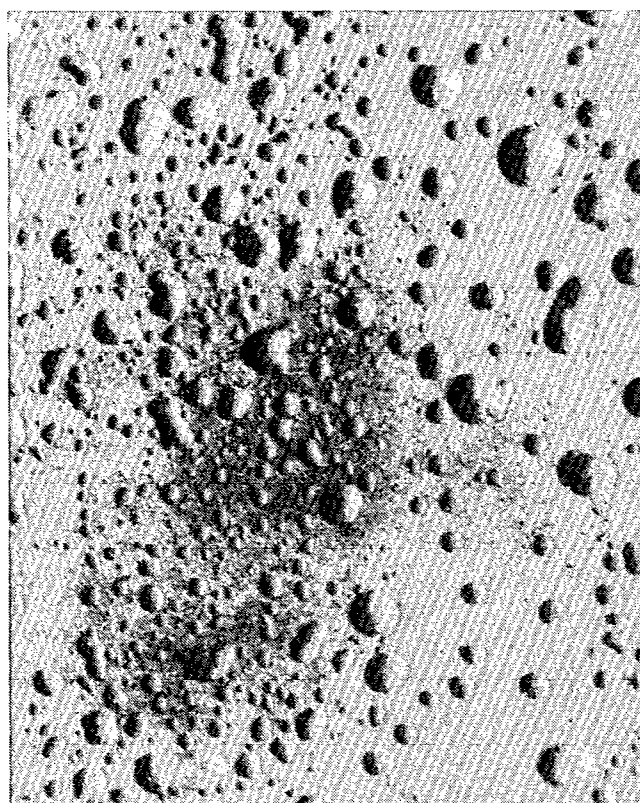




Density 2



Density 3



Density 4



Density 5

Blisters of size 5