



Designation: F 109 – 91 (Reapproved 2001)

Standard Terminology Relating to Surface Imperfections on Ceramics¹

This standard is issued under the fixed designation F 109; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This terminology describes and illustrates imperfections observed on whitewares and related products. For additional definitions of terms relating to whitewares and related products, refer to Terminology C 242. To observe these defects, examination shall be performed visually, with or without the aid of a dye penetrant, as described in Test Method C 949. Agreement by the manufacturer and the purchaser regarding specific techniques of observation is strongly recommended.

2. Referenced Documents

2.1 ASTM Standards:

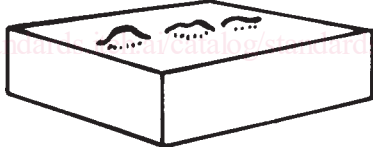
C 242 Terminology of Ceramic Whitewares and Related Products²

C 949 Test Method for Porosity in Vitreous Whitewares by Dye Penetration²

E 165 Practice for Liquid Penetrant Inspection Method³

3. Terminology

blemish—strained or discolored area attributable to normal composition or forming, or both. (See also **inclusion**.)



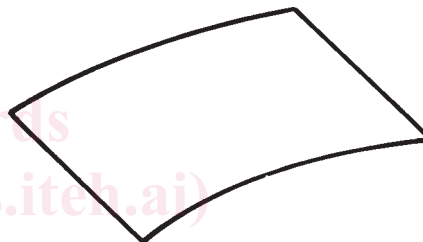
blister—bubble or gaseous inclusion at the surface which if broken could form a pit, pock, or hole.



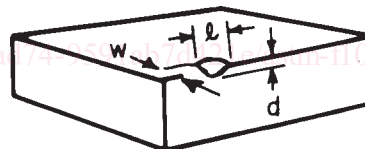
burr—fragment of excess material or foreign particle adhering to the surface.



camber—a single arch of curvature. (See also **waviness**.)



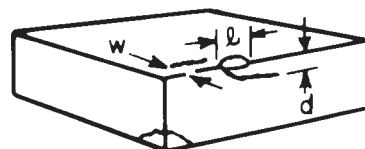
chip—area along an edge or corner where the material has broken off.



where:

w = width
 l = length, and
 d = depth.

closed chip—fractured area on the edge or corner when the material has not broken off. (Syn. *potential chip*.)



where:

W = width
 l = length, and

¹ This terminology is under the jurisdiction of ASTM Committee C21 on Ceramic Whitewares and Related Products and is the direct responsibility of Subcommittee C21.01 on Nomenclature.

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² Annual Book of ASTM Standards, Vol 15.02.

³ Annual Book of ASTM Standards, Vol 03.03.