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AMERICAN SOCIETY FOR TESTING AND MATERIALS
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Standard Terminology Relating to Surface Imperfections on Ceramics¹

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1. Scope

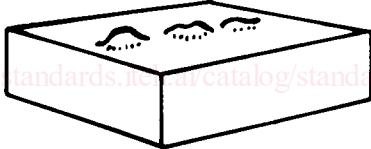
1.1 This terminology describes and illustrates imperfections observed on whitewares and related products. For additional definitions of terms relating to whitewares and related products, refer to Terminology C 242. To observe these defects, examination shall be performed visually, with or without the 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

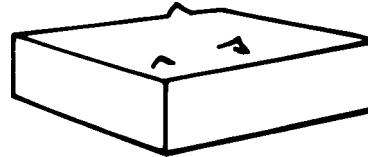
blemish—strained or discolored area attributable to normal composition or forming, or both. (See also **inclusion**.)



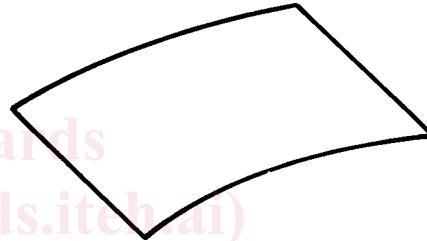
blister—bubble or gaseous inclusion at the surface which if broken could form a pit, pock, or hole.



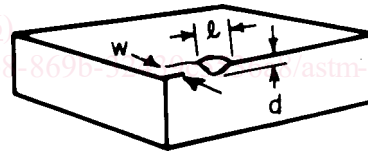
burr—fragment of excess material or foreign particle adhering to the surface.



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



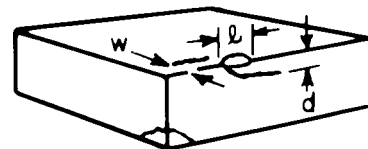
chip—area along an edge or corner where the material has broken off.



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

¹ This terminology is under the jurisdiction of ASTM Committee C-21 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.