

# Testing of glass containers for chemical durability.

**Dept. of Glass Technology, University of Sheffield - Laboratory Glassware, Glass Bottles, Containers, Flasks, Beakers, Jars and Jugs**



Description: -

-testing of glass containers for chemical durability.

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## Dealkalization

Type I Glass Containers This type of glass contains 10% of boric oxide, 80% of silica, and small quantities of both aluminum oxide and sodium oxide.

## Laboratory Glassware, Glass Bottles, Containers, Flasks, Beakers, Jars and Jugs

The pH of the rinse water is then measured; untreated containers will tend to yield a slightly alkaline pH in the 8-9 range due to extracted alkali, while dealkalized containers tend to yield a pH that remains approximately neutral. Microbiological Stability Tests Microbial contaminants usually come from two different origins: during production and filling, and during the use of the cosmetic by the consumer. On manufacturing lines, one way in which this process was done was by flooding the annealing with SO<sub>2</sub> or SO<sub>3</sub> gases—especially in the presence of water, which enhances the reaction.

## Dealkalization

The calcium, magnesium and aluminium ions which increase the chemical of the glass will react and allow a clear path to further attack. Also, the specified surface area must be available for extraction at the required temperature. If the product passes three cycles then you can have a good degree of confidence in the stability of the product.

## ASTM C225

Testing a composite sample for identity could satisfy the CGMP regulations §§ 211. Specific batch details The line supervisor will need to know the batch numbers and expiry dates for each batch to be packaged.

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