Collage of Engineering

Materials Department

Third Class

Lecture (7-a)

GLASS

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4.3 Finishing of Glass products

Finishing of glass products includes the following phases:

- Cap cutting,

- Bottom sanding,

- Top sanding,

- Outer and inner trimming,

- Bottom trimming,

- Bottom and top polishing,

- Melting down the edges.

5- QUALITY CONTROL

5.1 Definition of quality

Different sources define the meaning of quality in different ways. One of the more practical definitions is: “in accordance with the demands”. Considering that glass products are mostly made by hand, it is hard to determine the exact demands. Due to this reason, quality is defined by “the maximum allowed”.

Standard ISO 9001:

Quality is a degree at which the combined characteristics of a product meet the quality demands.

Demand is the need or expectation of buyers.

Demands are stated in a general acknowledged way (product for storing liquids can’t have holes) or as requirements.

Mandatory requirements must be set in a way that is easily understandable (dimensions, samples, etc.) and need to be acknowledged in a comprehensive way by the production.

Quality checks have to be performed throughout the whole process (inter-phase check) and at the end of the process (final check). All products that do not meet the requirements need to be excluded.

Characteristics are features that define a product and can be checked.

5.2 Characteristics

Quality of our products is achieved by:

1. **Glass quality**: defined with color of the glass, quantity and size of bubbles and stones “vind”

2. **Shape and dimension of the product**

3. **Pattern on product** (in structure, sandblasted, sanded, drawn): layout, dimension of the pattern(height, width, angle of sanding), composition of the pattern

4. **Product functionality**

5. **Surface of the product**

6. **Equipment of the product**

For each of the characteristics exact requirements must be set. All demands that variate from the acknowledged one are considered as errors and products must be discarded. Below you can see typical characteristics and errors that occur during production in industry like ours.