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DEPARTMENT OF COMMERCE  
BUREAU OF STANDARDS  
WASHINGTON

Letter  
Circular  
LC 307

(July 1, 1931)

Superseding  
LC 240

SPECIFICATION FOR HAEMACYTOMETER CHAMBERS

1. Glass used in the chamber shall have no defects visible beneath the ruled area.

2. All chambers shall be of the one-piece or solid type in which both the cover glass supports and the ruled surfaces are integral with the glass slide.

3. All chambers shall be fully and correctly labelled with the nominal depth, the type of ruling and the name of the manufacturer or responsible distributor. Each should bear a serial number.

4. The error in the depth of the chamber from the plane of the supporting surfaces for the cover glass to the ruled area shall not exceed plus or minus 2 per cent ( $\pm 0.002$  mm for chambers having a nominal depth of 0.1 mm, and  $\pm 0.004$  mm for those having a depth of 0.2 mm). In the case of Helber chambers having a nominal depth of 0.020 mm the error in depth shall not exceed 5 per cent ( $\pm 0.001$  mm).

5. The error in the length of any side of the central millimeter ruling shall not exceed plus or minus 1 per cent ( $\pm 0.01$  mm). In the case of a Fuchs Rosenthal ruling, the error in the length of any side of any one of the sixteen millimeter squares shall not exceed plus or minus 1 per cent ( $\pm 0.01$  mm).

In the case of a Bass ruling, the error in the length of any side of the two millimeter square ruling shall not exceed plus or minus 1 per cent ( $\pm 0.02$  mm).

In the case of chambers of the double line type all measurements for the one millimeter interval and its principal subdivisions, shall be made using the center of the clear space between these double lines.

6. The graduations which subdivide the one millimeter square or squares shall be so spaced that none of the small squares or rectangles so formed has any side in error by more than  $\pm 0.005$  mm.

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## SPECIFICATION FOR COVER GLASSES FOR HAEMACYTOMETER CHAMBERS

Cover glasses shall be free from visible defects and shall be plane on both sides within 0.002 mm.

## SPECIFICATION FOR REINFORCED COVER GLASSES FOR HAEMACYTOMETER CHAMBERS

Reinforced cover glasses shall be free from visible defects and shall be plane within 0.002 mm over the entire side not having the reinforcement.

## PRECISION SEAL

Each haemocytometer chamber and each cover glass which passes the specifications is marked with a Bureau of Standards precision seal.





