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NATIONAL STANDARD OF THE
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YBB 60422012

Tests for Coefficient of Linear Thermal Expansion

线性热膨胀系数测定法

Tests for Coefficient of Linear Thermal Expansion

This Method is applicable for determining the linear thermal expansion coefficient of pharmaceutical glass containers with similar composition to standard glass.

This Method is to stack and burn the standard glass with a known linear thermal expansion coefficient and the glass with a linear thermal expansion coefficient under measurement; and draw it into a wire. Since the two types of glass have different linear thermal expansion coefficients, the wire will be domed. According to the dome degree of the wire, the linear thermal expansion coefficient of the glass to be tested can be measured.

Apparatus

blowtorch.

Micrometer and micrometer base with accuracy of 0.01mm.

The special clamp is made of steel strip with approximate dimensions of 200mm long, 20mm wide and 1mm thick. To prevent scalding hands, two pieces of insulation are placed 100mm from the front end. see Figure 1.

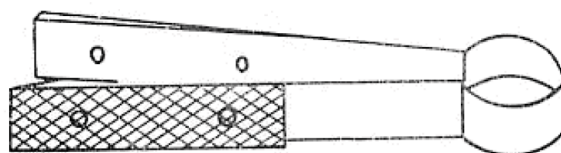


Figure 1 – Special Clamp

Ruler for measurement. It consists of a glass plate and a glass mirror each with a size of 250mm×300mm. There is graph paper on the mirror, and horizontal and vertical coordinate lines are drawn. Cut off 3mm paper around two points 200mm apart horizontally and on both sides of the vertical line to expose the mirror surface. The cut-off parts on both sides of the vertical line are 60mm on the upper and lower parts. As shown in Figure 2.

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