

Distortion Tester TS-8N

The glass changes its shapes by heated and molded during manufacturing process. Regardless of how excellent shape and color is, the distortions can occur within the glass invisibly if proper annealing* is not carried out.

(*annealing: the process of heating up to an appropriate temperature, then holding at that temperature then followed by slowly cooling. By this process, it removes residual stresses, reducing hardness, improving machinability, enhancing cold working, and adjusting crystal structure, etc.)

Products with distortions are fragile and can easily break with even a slight impact. In extreme cases, the unevenness can naturally cause curvature or cracks. Distortion tester can easily identify these imperfections in inadequately annealed products. Another distinctive feature of this product is the ability to observe the striae caused by refractive index imbalances.

The rotating frame has markings distributed from 0° to 100°. With 0° representing the normal state and the most intense colors of distortion appearing at the 90° position.

For the inspection, the acceptable quality limit is set by the number appears on the rotating frame. Based on that, it can be judged that the annealing is insufficient if the color of distortion can be observed at a lower value on the scale than where the acceptable quality limit begins to show color. (If the annealing process is sufficient, distortions will not be visible. If the annealing is insufficient, the more intense the colors will appear. Additionally, the appearance of distortions can vary slightly depending on the sample.)



TS-8N DISTORTION TESTER



Resin's flow state

Dust Tester TS-10N

Among pharmaceutical products, injections and infusions that are administered directly into the body require safety and the highest quality standards.

The dust tester makes it possible to clearly see small foreign matter such as dust and dust in liquid glass containers such as glass ampoules used for medical drugs, and to easily check them. Additionally, a magnifying lens (approximately 3x) is set on the front, making it easier to see even small inspection items, making it an inspection machine that significantly reduces user fatigue even when used for long periods of time.

During the inspection work, rotate either the top or bottom rotating frame to set the screen to make it the darkest blue. By adjusting the brightness of the rear lighting, dirt and dust shine white and can be clearly seen.

This testing machine has been used in the testing departments of many pharmaceutical companies for many years.



Vial bottle with dust



Turn on the LED Light source



Adjusting the angle of the lens makes the dust particles float up.

TS-10N DUST TESTER

Specification



P/N	TS-8N	TS-10N
Description	Distortion Tester	Dust Tester
Size	235×235×400mm	
Eyepiece type	Single type	
Power	AC100V-220V	
Light source	White LED light with Light Controller	
Magnification	No	3×
Cooling	Air cooling	