

Size Gum Tester

Model B

Model No. 2202-B

The size solution for surface sizing penetrates and stays in the paper surface while it circulates in the group of rollers of a paper-making machine. During this process, gummy aggregations form in the size liquid, affected by the contact heat of continuous paper and mechanical shear force. After winding and drying, such gummy substance forms defects on the paper surface. There are two types of machines, A and B models. The model A is a tester applying nip pressure on the rollers, with a pump to let the size liquid circulate from the constant temperature tank. With this machine, it is possible to reproduce the conditions of an actual paper making machine for the user to know in advance the stability and mixing of ingredients. The model B is a simplified type to take out size liquid from the pan through the lower roll and introduce it into the nip between two rollers. By so doing, the desired shear force is produced, and the observer can monitor and evaluate change in state of the liquid. This tester is also used as a simplified roll coater for the coating machine.

Rubber Roll	80mm in diameter ×300mm long, two rolls, made of NBRRoll
Peripheral Speed	5 to 20m/min.
Roll Pressure	0 to 200N (total pressuring force)
Sample Pan	200cc (max. 300cc)
Motor	three-phase 200/220VAC 50/60Hz 0.4kW
Outer Dimentions	680×520×1,200mm
Instrument Weight	146kg



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