

digiBURST I Nx™

INTRODUCTION

Textile fabrics having no particular direction cannot be tested for its strength on a tensile tester; a multidirectional force generated by hydrostatic pressure is applied on fabric to check the strength of that fabric, this phenomenon is called bursting strength testing. Paramount digiBURST I Nx™ is specially designed to perform the bursting strength testing of knitted fabrics; it can also be used for leather, paper & card Boards etc.

EQUIPMENT

Paramount digiBURST I Nx™ has a sturdy body made of mild steel having a specially designed clamp to hold the fabric for bursting test. The upper clamping surface, which is in contact with the test specimen, has a continuous spiral groove and the lower clamping surface has a number of concentric grooves to minimize the slippage of specimen. A circular diaphragm of synthetic rubber of 1.8mm is clamped between the lower clamping plate & pressure cylinder.

The equipment is fitted with a motor driven cam mechanism, which increases fluid displacement on the lower side of the diaphragm at a specified rate. The equipment has an arrangement, which automatically brings down the pressure and stops the motor on completion of the test cycle. A digital, microprocessor-based control panel with digital display of peak value & zero setting option. The equipment is beautifully finished in Blue Metallic paint for modern aesthetics

SALIENT FEATURES

- Specially designed equipment to determine bursting strength of knitted fabrics.
- Latest design with digital control panel.
- Maximum capacity 35 kgs.
- Glycerin used as test fluid.
- Smooth precision engineered components for excellent performance.
- Complete with all accessories including calibrated aluminum foil for calibration.
- Supplied with calibration & inspection certificates.

***digiBURST I Nx™* is supplied complete with below accessories.**

| | |
|---|-----------|
| Main Unit | : 01 No. |
| Synthetic Rubber Diaphragm | : 02 Nos. |
| Diaphragm Tightening wrench | : 01 No. |
| Calibrated Aluminum Foil for Calibration with Traceable Certificate | : 01 No. |
| This User's Manual | : 01 No. |
| Calibration Certificate (Traceable to NPL) | : 01 No. |
| Inspection & Conformance Certificate | : 01 No. |



TECHNICAL DETAILS

| | |
|-------------------------------|--|
| Equipment Bursting Capacity | : 0 – 35 Kg/cm ² |
| Opening in upper clamp | : 31.5 mm diameter |
| Opening in lower clamp | : 30.5 mm diameter |
| Rate of fluid displacement | : 95 cc/minute |
| Test fluid | : Glycerin about 98% purified |
| Glycerin Capacity | : 160 ml. |
| Glycerin Density (d 20° / 4°) | : 1.255 – 1.261 |
| Geared Motor | : 1/4 HP, Motor |
| Pressure Sensor | : Pressure Transducer Sensor |
| Power Supply | : 220 Volt, 50 HZ AC |
| Dimensions of the Instrument | : 530 (L) x 430 (W) x 610 (H) mm 21" (W) x 17" (D) x 24" (H) Inch |
| Net Weight of the Instrument | : 85 Kg. (Approx.) (187 lbs) |

RELATED STANDARDS

| | |
|------|---------------------|
| BS | 3424/3137 |
| ASTM | 3786 / ASTM D 774 |
| ISO | 2758/2559/3303/3689 |