STEINFURTH®
Electromechanical Measuring Systems

Rotational Sport Closure Tester

…for standardised safety tests on sport closures

The Rotation Tester for Sport Closures (RTSC) is an appliance designed for use on an automatic tensile testing machine. It consists of a preform fixture mounted to a wheel, a bite mechanism with integrated adjustment fixture and a safety coupling. The purpose of this device is the simulation of a human attempting to open the spout cap of a sports closure, especially with his or her teeth.

BENEFITS:

- Standardised ISBT test for Sport Closures
- Repeatable results at any load machine
- Simulation of human jaw
- Easy adaptation to any load machine

OPERATION:

The design of the clamp assembly complies with ISBT physical performance testing methods #102 and #103. It simulates a human (infant) jaw with teeth. The bite force is set by shifting a weight along a threaded rod. It can be measured using a standard load cell.

With the specimen preform with closure in place, the closure is rotated around the position of the clamped spout, possibly resulting in completely removing or damaging the spout cap.

TECHNICAL DATA:

Bite force (max.):	141 N / 31.7 lbf
Specimen diameter:	30 mm / 1.2 in
Preform diameter:	15...27 mm / 0.6...1.2 in
Load cell capacity:	200 N / 45 lbf

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