



S-Tester

Model 17-38

The new method for CMT testing

The 17-38 S-Test is a new test method developed in 2018 as an alternative to the CMT test. The new method was developed to measure the compressive strength of the flute/medium. A 15 mm wide specimen of uncorrugated medium is placed between two clamps. The span between the clamps is 4mm and the clamps have an offset of 1mm. The offset of 1mm compresses the flute to form an "S" shape during the test. The test result is the maximum compressive force. The S-Test can be correlated to the first plateau of the CMT.

Why a new test?

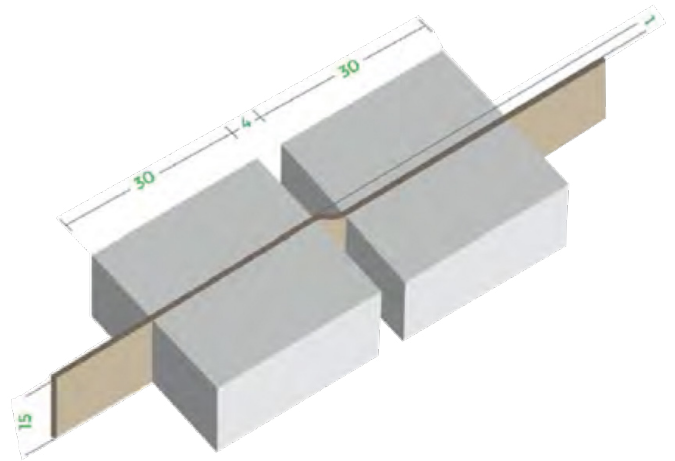
The CMT test is time consuming and test results can be influenced during sample handling, preparation and by the operator during the measurement.

Several factors including leaning flutes, improper tape adhesion, wrong flutes can influence the results. The test must be performed immediately after sample preparation or after 30 minutes for the CMT30 value.

Features:

- Direct replacement of the CMT
- Compact and modern design
- Automatic clamping of sample
- Touch screen
- Intuitive user interface
- Unique clamping mechanism
- Statistical information
- GraphMasterPro™ compatible

Model 17-38 is manufactured by Messmer Buchel, an Industrial Physics company.



Sample clamping fixture with 1 mm offset.

Technical Specification:

Model	17-38 Series
Measuring units	N, kN/m, lb and lb/inch
Load cell range	100 N 250 N
Accuracy	Less than 1% of reading
Test speed mov. Jaw	3mm/min +/- 1mm/min
Span	4mm, offset 1mm
Span accuracy	0.05 mm
Language	Multiple available

Installation Requirements:

Electrical	100 V-230VAC 50/60Hz 28 Watt
Air	600 kPa (instrument quality)
Dimensions	430x420x195mm (LxWxH), 33kg 17x16.5x8 inches (LxWxH), 73lbs

Connections

- RS 232, Mini USB, footswitch connector

Optional

- GraphMasterPro, cutter, footswitch

Features:



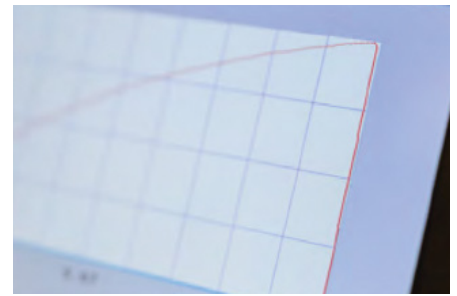
Proven test method

Smurfit Kappa worked for 2 years, together with the members of the CCB and University of Darmstadt Büchel, to prove the correlation with CMT.



No influence of operator

Except for cutting the sample, there is no sample preparation required. The operator places the sample between the clamps and presses start.



Correlate with CMT

The S-Test has shown a correlation coefficient of 97.6% with the first plateau of the CMT. Therefore the results of the S-Test can be used to replace the CMT test.



Why not the CMT test

You want to predict accurately the performance of your corrugated board. The current used CMT test has too many influences making the results less accurate.



Cooperative development

Together with Smurfit Kappa, Messmer Büchel developed the S-Test. The Cepi Container Board and the Technical University of Darmstadt helped to test and prove the method.



GraphMasterPro™ (optional)

GraphMasterPro™ is a PC data collection program capable of providing curve analysis and data storage. GraphMasterPro can also be used to control the instrument.

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

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