

Group	1	1.1	1.2
	1.3		

TENOMETER

Ref.: S137



Tenometer*

Principle

The Tenometer tests dynamically, the inter-fibre cohesion phenomena through roving and ribboning.

The Tenometer is used in spinning where it optimises the sizes applied, quantifying the inter-fibre cohesions and provides graphical evidence of its dispersion.

The spinning behaviour in relation to the wetting of a linen thread depends strongly on the fibrous dissociation obtained at the stage.

This dissociation is obtained on one hand, by the mechanical action of points on the subject, and on the other hand, by the chemical process carried by the bobines issued by the roving device.

This process is built up of:

- A boiling-off operation on an alkaline surface
- A whitening operation with the assistance of oxygenated water to carry this out.

This process is in effect to hydrolyse, forming parts of the residual circuits which solder together the elementary fibres and will allow for the necessary fibre dissociation.

Groups:

1 Textile – **1.1** Clothing – **1.2** Health – **1.3** Technical – **2** Non woven – **3** Leather – **4** Thermoplastics – **5** Thermosets/Composites



Designer of measurement benches

SARL au capital variable de 7650 €

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It will nevertheless be necessary to control the ending of the effect of the process in order to avoid:

- A dissociation too high which would result in a lack of cohesion and could cause breakages.
- An insufficient dissociation would cause a refusal to draw as well as

breakages. In order to know the state of dissociation, **the flax tenometer** allows for the testing of the generated force by processed flax thread la force, throughout the drawing train similar to that found in spinning.

Tenometer version « flax »

Allows the launderer to verify the result of the actions of its different treatment of fuses such as:

- ◆ homogeneity of the process on the entire product from the same basin
- ◆ la reproduction du traitement
- ◆ adjustment of the process according to the flax used.

Allows the user to adjust whilst continuing to spin in terms of results obtained:

- ◆ gauges,
- ◆ coefficient of torsion,
- ◆ mixes to use.

Resistance measures to the drawing of processed threads are saved by the intermediary of a force sensor, linked to a calculator in the form of a micro-computer. Software expected to work using windows.

Technical characteristics**

Power cylinder diameter:	30 mm
Pulling Machine cylinder diameter:	51 mm
Power pressure force:	0 to 20 kg
Draw pressure force:	0 to 40 Kg
Draw rate:	3 to 14
Gauge:	45 to 175 mm
Dimensions (W x L x H) (mm)	812 x 553 x 500
Power supply	230 V / 50 Hz

*** Characteristics given as an estimate, we reserve the right to freely modify them with the aim of improving the performance of our test device.*

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