SODEMAT®

Activity of MATÉRIAU INGÉNIERIE

CoupTest 2

Cut resistance of gloves

Commercial references: S170-00 - S039-00

CoupTest 2 QC version

Type of test:
Resistance

Type of materials:
P.P.E.
Textiles

Standards:
EN 388

Introduction

The cut resistance is one of the most important parameters for gloves. In this context, the French Institute of Textiles and Clothing (IFTH) through its subsidiary Sodemat® has developed a protocol for evaluating the performance. Thus was born CoupTest.

Once Sodemat ® has become a fully-fledged activity of Matériau Ingénierie, we wanted to modernize this tool of quality. We therefore propose the ultimate evolution of this lab instrument: the CoupTest 2.

The CoupTest 2 is available in two versions: a simplified version, and a version "expert" .

Whatever the version, our concern is to provide the instrument according to the first generation while improving reproducibility, reliability, and maintenance ■

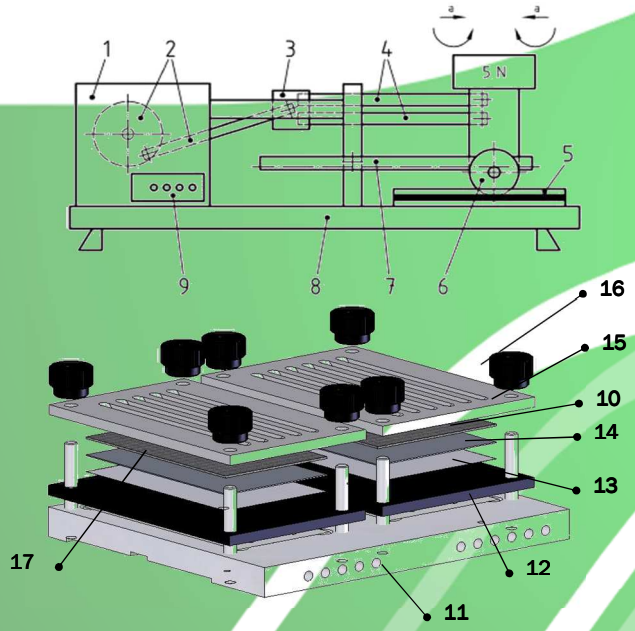
Field of application

P.P.E. - Technical textiles

The CoupTest 2 is ideally suited for testing the safety gloves and fabrics of the latter, in accordance with EN 388.

It can also be used for the evaluation of the resistance to cutting other high resistance materials, with different speed and force ■

Principle



Caption:

1– Dectector limit
2– Sollicitation system
3– Slide
4– Connecting rods
5– Sample holders
6– Blade of test
7– rack and pinion
8– Base plate
9– Counter
10– Sample
11– Insulating support
12– Conductive rubber
13– Aluminium foil
14– Filter paper
15– Top
16– Quick fastening
17– Test fabric

The principle of operation of CoupTest 2 is subject to EN 388 : the test specimen is placed flat, circular blade is placed over, under a load, rotation and translation given . The direction of rotation is opposite to the direction of translation, the blade should make one complete revolution of a translation of 50 mm.

A normative system can count the number of 1/10th cycle (one cycle corresponds to a return) required to cut the material tested. This device is coupled to a detection system who stops the biasing and stores the count when the cut occurs.

From the obtained value, an index is calculated, which is the image of the glove or the ability of the fabric to resist the cutting ■

Description

The CoupTest 2 uses the same loading mode and the same speed as the original CoupTest. The adjustable feet allow fine adjustment of the flatness of CoupTest 2.

A cover protects the sensitive elements and the operator during the handling phases: change of position and change of the blade. The holding in position of the movable platen is made by a spring indexer. Finally, a lateral position ensures the maintenance of the high cutting head.

2 test plates are integrated, allowing more rapid testing. Quick clamping nuts ensure prompt and correct maintaining of the samples.

Maintenance is not neglected. The cover of the cutting head is removable simply. A screw to be removed, and the cover is removable, thereby uncovering the entire cutting head. Thus, the lubrication of the moving parts is possible without our intervention services.

Finally, because it is a laboratory instrument, the calibration was maintained. Stroke and speed are adjustable ■

2 available versions

We propose the CoupTest 2 in two different versions, depending on whether one wishes to only quality control or also development ■

Version Quality Control - Réf. 5039-00

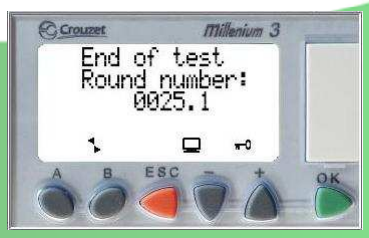
This is the equivalent version but enhanced CoupTest original:

- A single speed (the first CoupTest)
- A single load (5 N)
- A single, clear display ■

Main characteristics*

Weight:	*22 kg*
Dimensions (WxDxH):	*356x225x224 mm*
Electrical requirements:	*Single phase* *110, 230V* *50, 60 Hz*
Dimensions of samples:	*130x80 mm*
Dimensions of test fabric:	*130x90 mm*
Thickness max. of sample:	*7 mm*
Speed:	*10 cm.s⁻¹*

Version « experts » - Réf. S170-00



PLC

Functions identical to the simple version, but with more advanced features for a better understanding of the phenomena of resistance to cutting:

- An automated test management
- A variable speed, freely configurable
- A load of 5 N standard, others optional

Main characteristics*

Weight:	*23 kg*
Dimensions (WxDxH) :	*356x225x224 mm*
Electrical requirements:	*Single phase* *110, 230V* *50, 60 Hz*
PLC	
Dimensions of samples:	*130x80 mm*
Dimensions of test fabric:	*130x90 mm*
Thickness max. of sample:	*7 mm*
Speed:	*0.1 to 10 cm.s⁻¹*

Accessories supplied

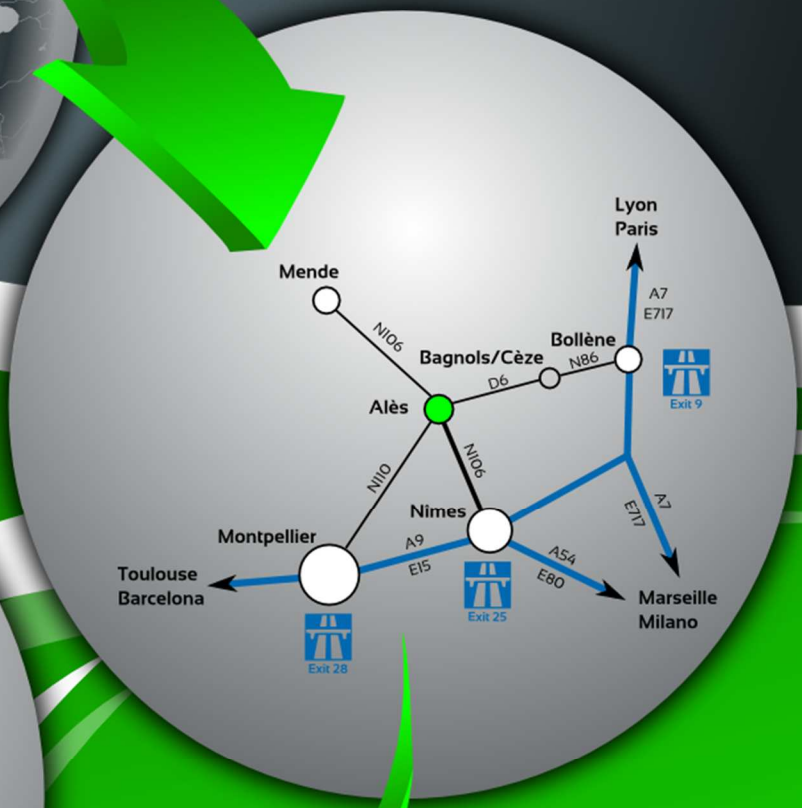
- *Cutting templates (little and big size)*
- *Power cord IEC*
- *2 test blades*
- *Calibration certificate*
- *User manual*
- *CE certificate*

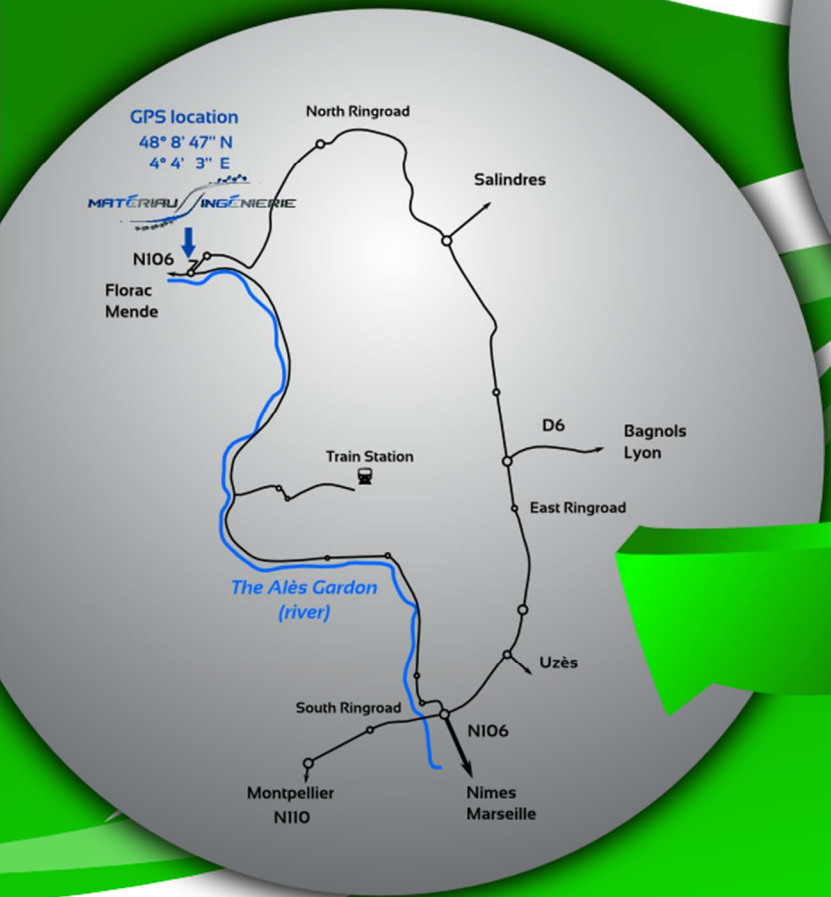
Consumables

- *Test fabric (5 m²)*
- *Test blades (x5)*
- *Conductive rubbers (2 little, 2 big)*

** Features for information only, we reserve the right to change freely in order to improve the performance of our test unit.*

Our contact





Matériau Ingénierie SARL

Vallon de Fontanes
2, rue des Acacias
F-30520 Saint-Martin-de-Valgalgues

Tél: +33 (0)466 922 060
Fax: +33 (0)466 253 980
Courriel: info@mat-ing.com

Our representative: