SODEMAT®

Brand of MATÉRIAU INGÉNIERIE

MADE IN FRANCE

MIE Abrasion Tester

Abrasion resistance of automotive leather and texiles

MIE Abrasion Tester

Commercial reference: S147-00

Type of tests:
- Abrasion

Type of materials:
- Textiles
- Leathers

Standards:
- Renault D44 1073
- PSA D44 1073
- Benz PWT 7332
- SNCF 284 F

Introduction

This test is called the company *Mécanique Industrielle d'Enghien* who developed according to specifications of Renault. Today, PSA, Benz, SNCF have adopted this test either tissue or on the skin.

This method was developed to reproduce as faithfully as possible abrasion suffered by friction of woven and knitted textiles, composites, plastic coated textiles (fabrics coated plastic) and leather trim.

According to the method, the abrasive element may differ, or other test materials, and the sequences of tests (time, speed, etc..).

Matériau Ingénierie has taken over SNE JPS in 2005, which was itself integrated MIE many years ago. We certainly modernize the means test, but have retained its strength that made his reputation.

We offer of course consumables needed ■

Applications

Fabrics - Leather

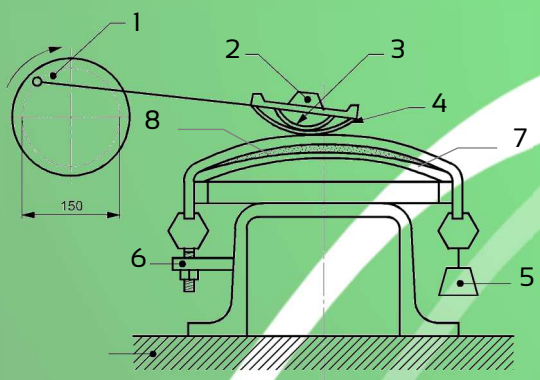
The abrasimeter MIE is first dedicated to flexible materials used in car interiors. It can however be used in other areas where textiles and other flexible materials are subject to significant abrasion - Do not hesitate to contact us in case of specific request

Principle

A test piece of fabric (fabric coated plastic, composite or skin) is urged in a back and forth by a skid covered with a tissue of said reference "fabric wear."

The sample is kept taut by means of a mass.

After a specified period (usually 8 hours), the test is stopped and the observations of the appearance are made by the same method



Principle MIE Abrasion Tester

Caption:

1– Eccentric

2– Additional mass

3– Upper spring leaf

4– Fabric wear

5– Tension the test piece with a mass

6– Fixing of the test piece

7– Lower spring leaf

8– Sample + other intermediates supports

Description

The wear assembly is positioned on a frame in aluminum profiles. A cowling aluminum profiles and synthetic glass protects the entire test.

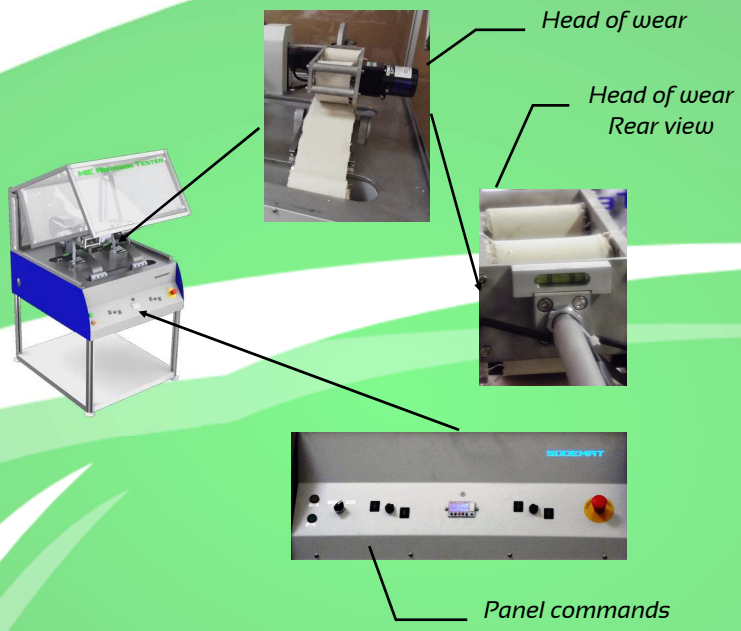
Heads of wear

The MIE Abrasion Tester comprises 2 heads of wear thus allowing the realization of two tests simultaneously.

The originality of such heads lies in the addition of engines that can automatically change the controlled contact area of the fabric of wear intervals. Moreover, this control system at the same time the torque tension fabric as requested by my method Benz PWT 7332.

Interval and winding torque value can be set via the controller located on the control panel.

A spirit level is present at the rear of each head to ensure the horizontality of the latter before the beginning of a test



Panel commands

All the controls are on the front, including:

- The safety chain (emergency stop and associated indicators)
- The control buttons on the progress of fabric of wear (position 1 and position 2)
- The management controller (English & French) which incorporates standard methods Renault, PSA and Benz. Adapting to new protocols is possible.

Protective cover

A test is impossible if the safety cover is opened, through a contactor. This protects the user when of wear the heads are moving. This satisfies the requirements of HSE services.

The opening and closing are assisted by gas springs.

Technical caractéristiques*

Weigth:	155 kg
Dimensions (Lxdxh) :	95x180x110 cm
Power supply:	110, 230V 50, 60 Hz
Speed:	10 cm.s^{-1} 5-50 cycles.min^{-1} ■

Delivered accessories

- IEC power cable
- 2 masses of 5 kg
- Calibration certificate
- User manual
- CEC certificate ■

Consummables

- Renault & PSA D44-1073 methods
  - Wear fabric: 5 m².
    Ref.: S148-06
  - PUR plates: 85x84 mm, thickness 2.3 mm, 90 Shore A - Pack of 10.
    Ref.: S147-01
  - PUR foam: strip of 350x70 mm, thickness 10 mm - Density of 28 kg.m^{-3} - Pack of 50.
    Ref.: S147-03
  - Felt plates: plate of 350x90 mm, thickness 8 mm - Density of 350 kg.m^{-3} - Pack of 8.
    Ref.: S147-02
- Benz PWT 7332 method
  - Wear fabric: roll of 15 m x1.5 m
    Ref.: S148-07
- Other, contact us ■

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

Reliable

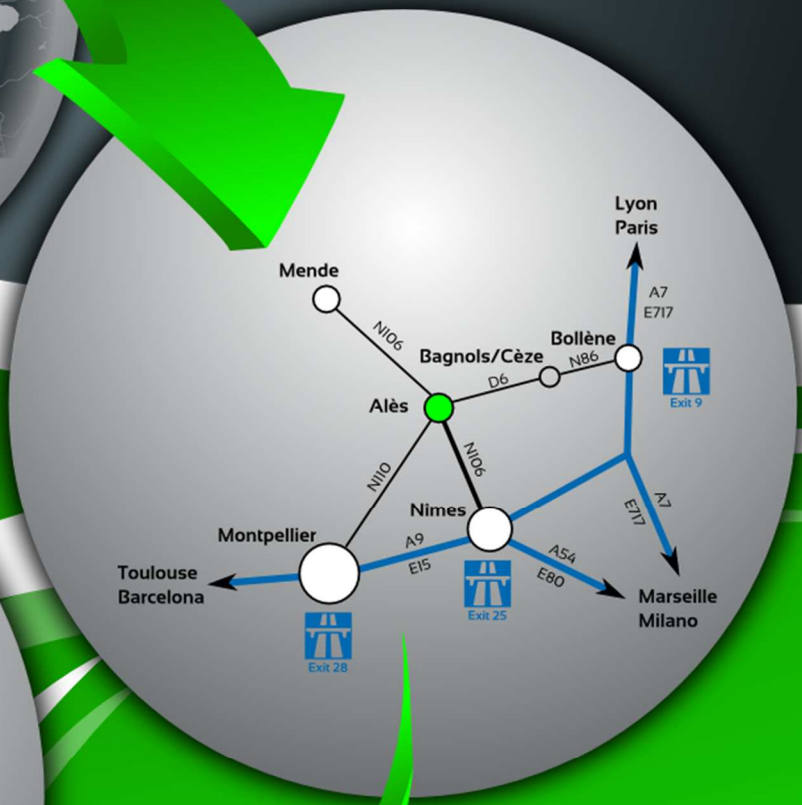
Attractive price

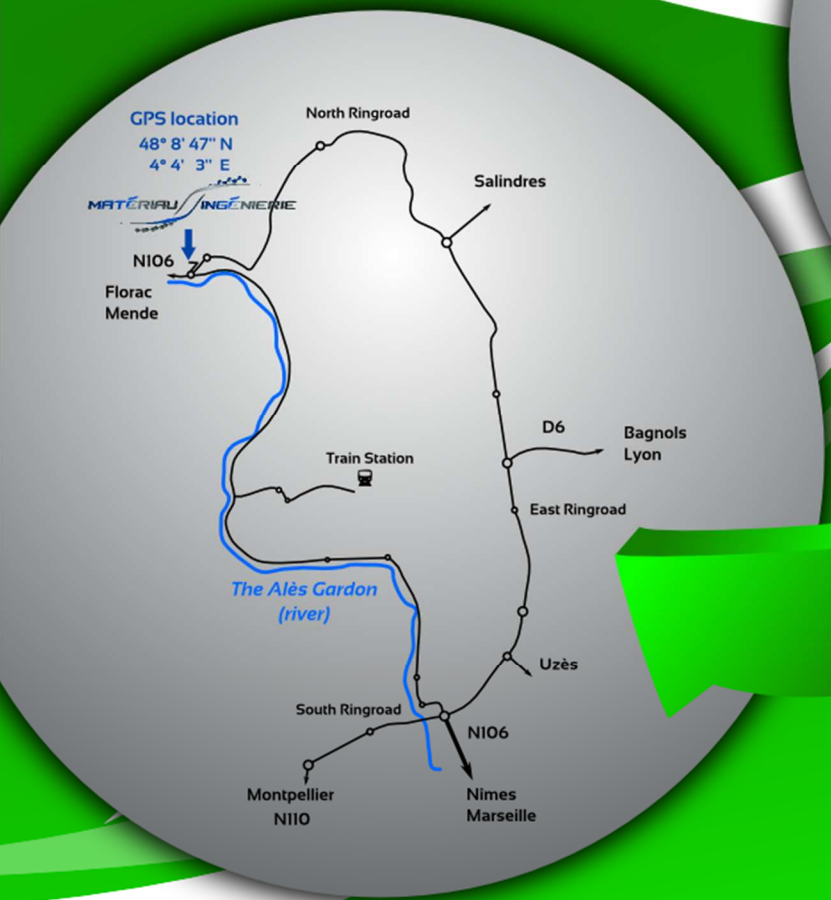
Robust

Easy maintenance

Upgradeable

Our contact





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