

PROTECTIVE LEVEL TESTING AGAINST MECHANICAL RISKS

CUT RESISTANCE TESTERS



Linear Cut Resistance Tester (code 3394B)



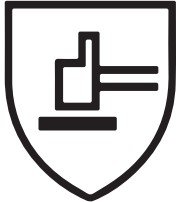
Glove Cut Tester (code 3394A)

Compact and user-friendly benchtop instruments to determine the resistance to cutting by sharp objects, in compliance with the main international Standards. Particularly recommended to measure the resistance to cutting of PPE (Personal Protective Equipment) like protective gloves and clothes.

Available models:

- **Glove Cut Tester, code 3394A** (with circular blade)
- **Linear Cut Resistance Tester, code 3394B** (with linear blade)

EN 388



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Abrasion	1-4
Circular cut	1-5
Tear	1-4
Puncture	1-4
Linear cut	A-F
Impact protection	

CUT RESITANCE RATING

All above testing available from MESDAN®



GLOVE CUT TESTER CODE 3394A

LINEAR CUT RESISTANCE TESTER CODE 3394B

Circular Glove Cut Tester, code 3394A

Main Features:

Equipment to test the resistance to cutting of materials used for protective gloves and clothes, according to the **EN 388** Standard.

Test Method: This type of test is based on the number of cycles required to cut the material at a constant speed.

The instrument will automatically stop as soon as the material to be tested - previously situated on the sample holder - is cut.

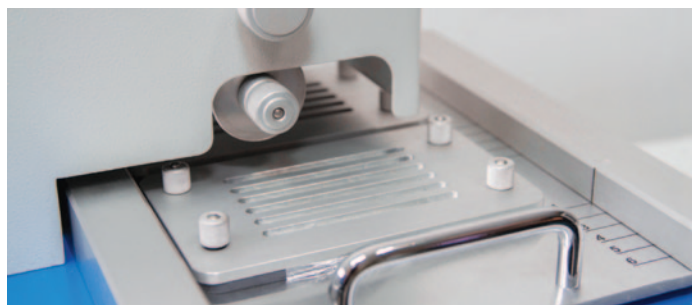
The digital display on the control panel will show the number of cycles performed to cut the sample.

The final result is obtained by comparing the number of cycles performed by the instrument to cut the sample, with the number of the cycles indicated by the reference Standard to cut the same sample.

The cut resistance rating ranges from 1 to 5, where 5 indicates the highest level of cut protection (see picture "CUT RESISTANCE RATING").

Equipped with digital control panel.

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding



INCLUDED ACCESSORIES

- Safety cover
- 1 roll of aluminium foil (0.01 mm thickness)
- 10 blades
- 2 sample holders
- 1 pack of reference fabric
- 1 set of filter paper, 65 g/m²

OPTIONAL ACCESSORIES & CONSUMABLES

Kit 115 Volt Transformer	Code 2520.300
Circular blade	Code 3394A.8
Aluminium foil, 0.01 mm thick, 16 m long (1 roll)	Code 3394A.2
Set of 100 pieces of 65 g/m ² filter paper	Code 3394A.4
Piece of standard fabric, 50 x 160 cm	Code 3394A.6
Black rubber base for sample holder (2 pcs)	Code 3394A.16
Calibration report	Code 3394A.CC1

REFERENCE STANDARDS

UNI EN 388 6.2.2 (2017), UNI EN 13594

DIMENSIONS / POWER SUPPLY

Weight: 21 kg
Dimensions: (L) 550 x (W) 320 x (H) 260 mm
Power supply: 230 Vac, 50/60 Hz

Linear Cut Resistance Tester, code 3394B

Main Features:

To measure the resistance to cutting by sharp objects on protective clothing, including gloves, according to the reference Standards. Equipped with moveable 9-position sample holder, to perform multiple tests with different applicable forces.

- Digital control panel
- Applicable forces from 0.1 to 200 N
- Rocker arm with LOCK - UNLOCK lever, equipped with zeroing system
- Movable sample holder (9 different cutting positions).

Test Method: This cut resistance test is based on the amount of force required to achieve a cut using a straight blade. By means of a selectable constant and perpendicular force, at a speed of 2,5 mm/s, this device cuts the sample - using a blade of a standard sharpness - and measures the blade stroke with an accuracy of 0,1 mm.

The target value is the needed force to cut through the material in a 20 mm blade stroke.

The cut resistance rating ranges from A to F, where F indicates the highest level of cut protection (see picture).



INCLUDED ACCESSORIES

- Safety cover
- 1 set of combinable weights to reach forces up to 61N
- 20 linear blades
- 2 sample holders
- 1 neoprene sheet for calibration (45x60cm)
- 1 roll of bi-adhesive tape
- 1 roll of aluminum foil (0.01mm thickness)
- 1 rectangular template
- 1 blade tightening screwdriver

OPTIONAL ACCESSORIES & CONSUMABLES

Linear blade	Code 3394B.6
Aluminium foil, 0.01 mm thickness, 16 m long (1 roll)	Code 3394B.2
Neoprene sheet for calibration, 45 x 60 cm	Code 3394B.4
Bi-adhesive tape (1 roll)	Code 3394B.8
Set of two 70 N combinable weights, to reach forces from 61 N up to 200 N	Code 3394B.26
Calibration report	Code 3394A.CC1

REFERENCE STANDARDS

UNI EN ISO 13997, UNI EN 388 6.3 (2017), ASTM F2992/F2992M

DIMENSIONS / POWER SUPPLY

Weight: 39 kg
Dimensions: (L) 800 x (W) 390 x (H) 400 mm
Power supply: 230 Vac, 50/60 Hz