CUT RESISTANT
INDUSTRIAL KNITTING/SEWING THREAD

Cut Safe®

DURAK Cut Safe® is a thread with very high cut resistance and is produced from various combinations of UHMWPE, glass fiber and elastan. Cut Safe can be produced in various thicknesses and colors according to customer requirements; it is very resistant to abrasion. It meets EN 388 and TDM-100 standard specifications. It provides confidence in industrial use thanks to its cut resistance at Cut-3 and Cut-5 levels.

Product Properties

- High cut resistance (Cut3- and Cut5- levels)

- High tenacity

- Excellent abrasion resistance

- Provides flawless performance even in high speed machines thanks to its special finishing processes

Cut Safe®

Areas of Use

- ○ **Cut resistant gloves**
- ○ **Cut resistant shoes**
- ○ **Cut resistant workwear**

Physical and Chemical Properties

Softens at 150°C.
Unaffected by normal solvents.
Has high UV resistance.
Unaffected by microorganisms.

Storage Conditions

Must be stored away from heat, humidity and direct sunlight.

Presentation

Durak Cut safe® is produced in different combinations.

EN 388

4 4 4 2 C X

Abrasion resistance	1-4
Cut resistance (Coup Test)	1-5
Tear Strength	1-4
Puncture resistance	1-4
Cut resistance(TDM-100 Test)	A-F
Impact protection	P, F, X

"Coupe Test"					
Performance level	1	2	3	4	5
Index value	≥ 1,2	≥ 2,5	≥ 5	≥ 10	≥ 20

EN388:2016		
Level	Cut resistance (Newtons)	Converted in grams
A	≥ 2 N	≥ 204 g
B	≥ 5 N	≥ 509 g
C	≥ 10 N	≥ 1020 g
D	≥ 15 N	≥ 1530 g
E	≥ 22 N	≥ 2243 g
F	≥ 30 N	≥ 3059 g

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Cut Safe®

Thickness and Strength Chart

Ticket No.	Nominal Tex	Strength CN	Elongation %
UMTGE 26	80	9.500	5 - 10
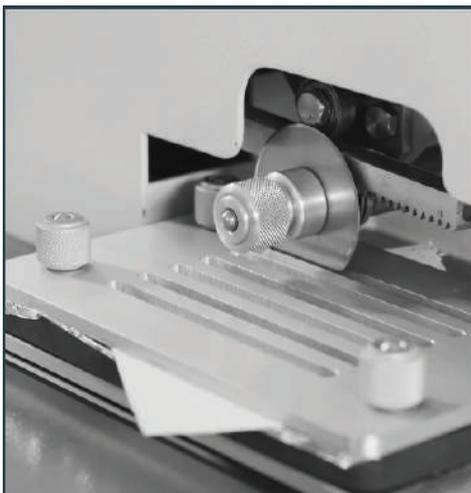
« COUPE TEST »
Rotating with repeated contact at constant speed
Constant load : 5 newtons (500 gr)
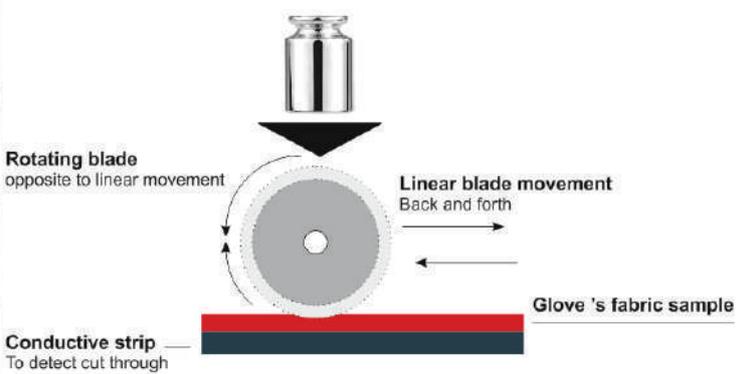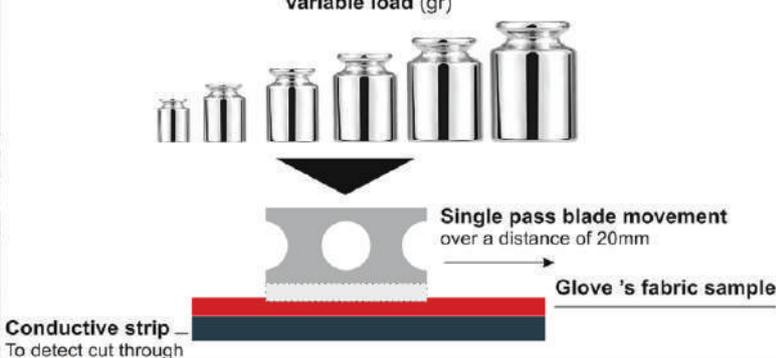
Rotating blade
opposite to linear movement

Linear blade movement
Back and forth

Glove 's fabric sample

Conductive strip
To detect cut through

« TDM-100 TEST »
ASTM F 2992-15
Straight cut
Variable load (gr)

Single pass blade movement
over a distance of 20mm

Glove 's fabric sample

Conductive strip
To detect cut through

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