

PERSONAL PROTECTIVE EQUIPMENT

PROTECTIVE GLOVES AGAINST MECHANICAL RISKS



EN 388 is one of the most common European standards for testing protective gloves against mechanical risks in general industry applications. To meet EN 388 it is also necessary to meet EN 420 which is the general requirements and test methods for protective gloves.

- EN 388 Protective gloves against mechanical risks
- EN 420 Protective gloves - general requirements and test methods

EN 388 includes four performance tests: abrasion resistance, blade cut resistance, tear resistance, and puncture resistance. In addition to these four tests, the major tests for EN 420 are shown below:

KEY PHYSICAL TESTS

- Sizing (Per Size)
- Dexterity

CHEMICAL TESTS

- Azo dye (for textile, leather)
- pH (for textile, leather)
- Chromium (VI) content (for leather)
- Extractable protein content (for Natural Rubber)

OTHER TESTS, IF APPLICABLE

- Water Vapour Transmission
- Water Vapour Absorption
- Water penetration
- Electrostatic properties



WHY CHOOSE SGS?

SGS's PPE solutions provide one stop testing and certification services for protective gloves against mechanical risks.

1. TESTING

SGS has testing laboratories for performing mechanical risks protective glove testing according to the EN 420 and EN 388. After completion of testing, SGS laboratories provide assistance to manufacturer in compiling technical files and coordinate with Notified Bodies for application of EC type examination.

2. CERTIFICATION

SGS United Kingdom Limited is a Notified Body (0120) approved to provide certification for EC type examination under Article 10 of the Directive.

It should be noted that under EN 420, the performance level should not be affected after any applicable specified cleaning.

EN 388 protective gloves need a pictogram (see below example) to show conformance as well as the level of mechanical properties. The four numbers under the symbol indicate the performance levels of abrasion resistance (first number), blade cut resistance (second number), tear resistance (third number), and puncture resistance (fourth number).

EN 388



4 5 3 2 (EN 388 pictogram example)

Protective gloves designed to meet EN 388 and EN 420 are considered to be Category II PPE products. Manufacturers or their authorized representatives in the European Community are required to submit technical documentation including product samples for testing to "Notified Bodies" for EC type examination under the European Union's Personal Protective Equipment (PPE) Directive (89/686/EEC). After receiving the relevant Notified Body certification, the manufacturer can affix the CE mark on their product. With the CE mark, goods can have free movement within the internal market of the European Community.

CONTACT

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