



T.C. ÇALIŞMA VE SOSYAL GÜVENLİK BAKANLIĞI
İŞ SAĞLIĞI VE GÜVENLİĞİ GENEL MÜDÜRLÜĞÜ

Market Surveillance Laboratory for PPE in ISGÜM

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- Why the tests of Personal Protective Equipments are necessary?
- Built of PPE test Laboratory
- PPE Test Laboratory Project
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Personal Protective Equipment-PPE?



Personal Protective Equipments in the Turkish market should be suitable with the PPE Directive.

This confirmation is controlled with Directorate General for OSH's market surveillance inspectors.

- Testing is an important part of the Market Surveillance Activities of Personal Protective Equipments.
- General Directorate of OSH should make the tests in it's own laboratory-ISGUM PPE Test Laboratory. If not possible, it may send the samples to an other test laboratory

Why Testing?

The Market Surveillance Inspector,

- Can take samples from the inspected equipments for testing.
- Send a pair of this equipments to ISGUM PPE Test Laboratory for testing.
- ISGUM PPE Test Laboratory should send the test results back to the Directorate in 30 work days time with a report.

For an effective Market Surveillance system, General Directorate for OSH decided to make PPE tests in it's own test laboratory and enforced an EU project named 'Establishing of a Market Surveillance Support Laboratory for PPE in ISGÜM'

Laboratory Project

Aim

Strengthen the national system for market surveillance of PPEs,
Building a PPE test laboratory within the Directorate that is well equipped to control PPEs' conformation to the Directive.



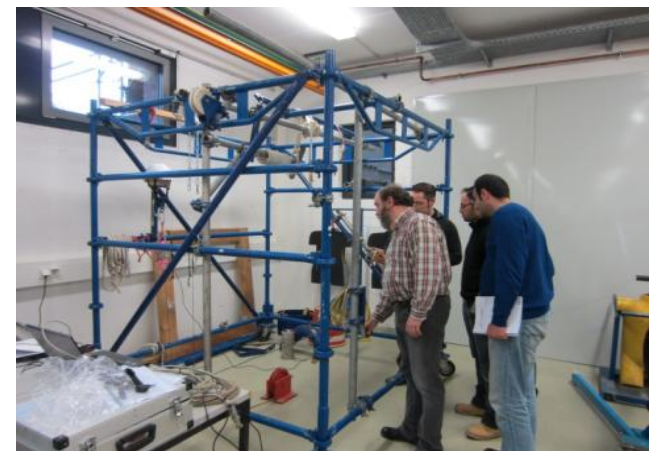
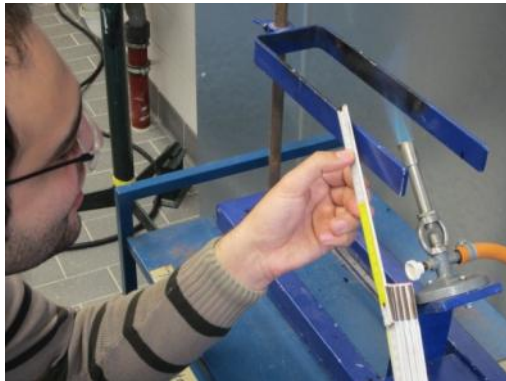
12 OSH expert assistant theoretically and practically trained on the test equipments, test standards, and related issues.

8 new expert assistants joined to the group and their trainings are started.

The importance of the tests are decided according to;

- Importance of protection and danger levels,
- Economical importance and sales rates in Turkish markets
- Reliability, repeatability, uncertainty of the test,
- Infrastructure of İSGÜM,
- Costs, other laboratories, calibration, complicacy, feasibility studies.

Trainings and Internships



- In the scope of this project, PPE Test Laboratory has built in ISGUM and still developing with the well trained test staff.
- Test laboratory will work to support General Directorate's market surveillance activities.
- ISGUM and PPE test laboratory is working to be an international accredited test laboratory.

PPE Laboratory consists of 6 main lots::

- Sample conditioning and preparation
 1. Tests for eye protectors
 2. Tests for head protectors
 3. Tests for falling from height protectors
 4. Tests for foot protectors
 5. Tests for hand protectors
 6. Tests for protective clothing

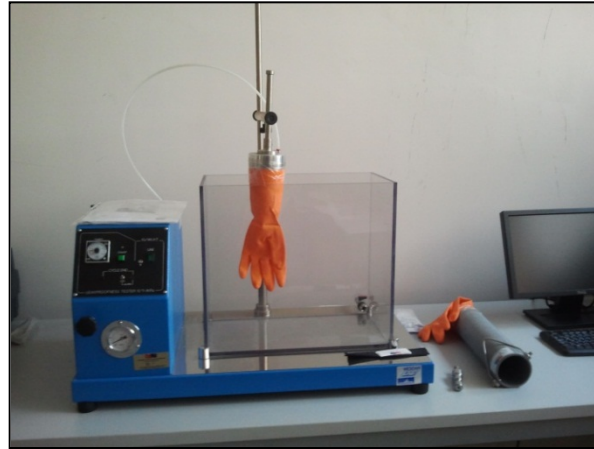
Preconditioning Equipments



Test Activities

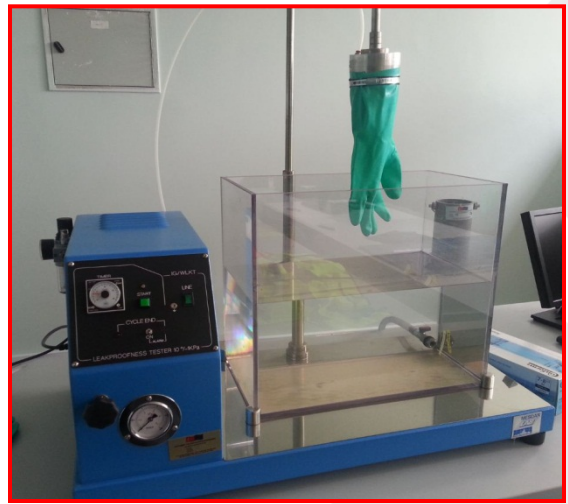
- Sample conditioning and preparation
 - Cut
 - Bar cut
 - Washing
 - Conditioning
 - Aging
 - Discoloration

Tests for Hand Protectors and Protective Clothing



Hand Protectors

- Abrasion Resistance
- Puncture Resistance
- Tear Strength
- Flame Spread
- Contact Heat
- Air/Water Leakage

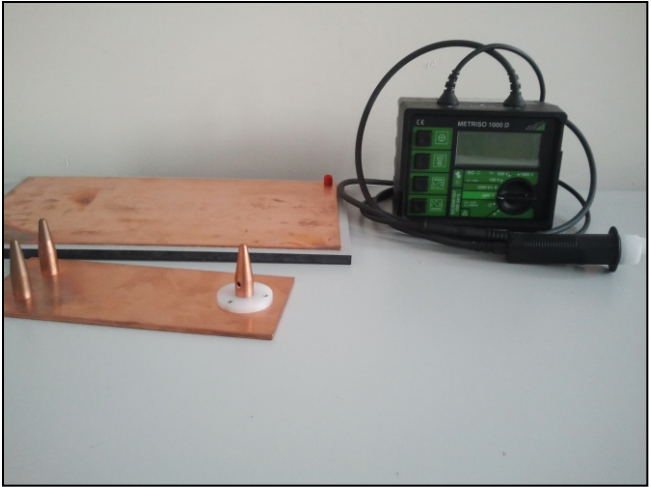


Protective Clothing

- Abrasion Resistance
- Puncture Resistance
- Tear Strength
- High Visibility Test
- Flame Spread



Tests for Foot Protectors



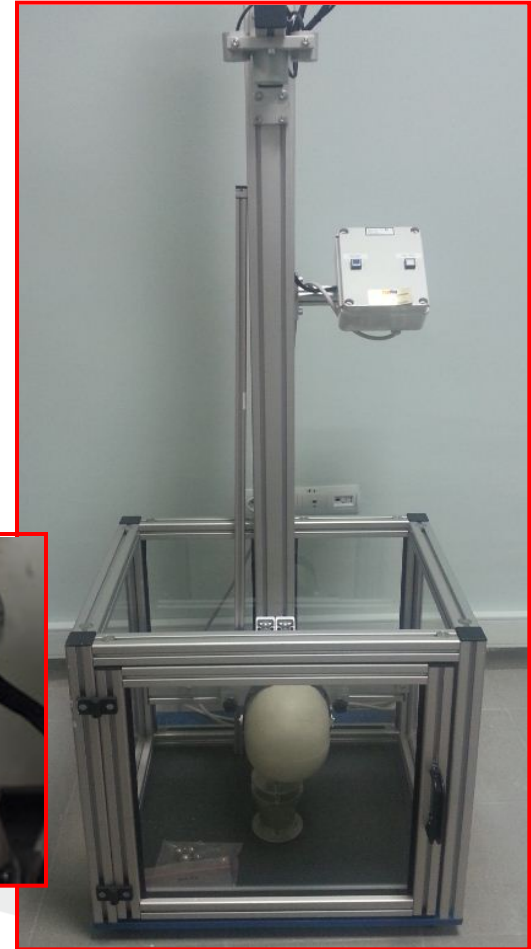
Foot Protectors

- Compression Resistance Test
- Impact Resistance Test
- Puncture tests
- Abrasion Resistance
- Anti-static resistance and electric
- Tensile, Tearing Tests
- Energy absorption test



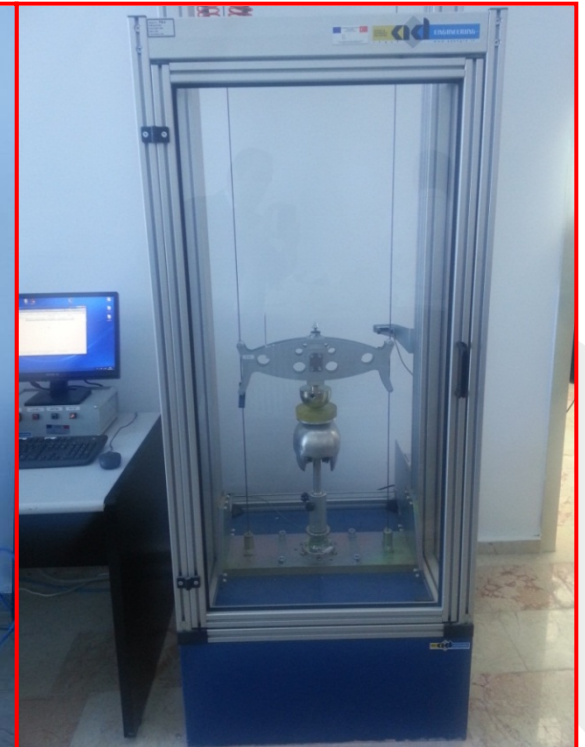
Tests for Eye Protectors

- Assessment of the Quality of the Material Test
- Goggle Surface Quality Test
- Minimum Resistance of Goggles



Tests for Head Protection

- Energy Emission Test
- Puncture Test
- Chin Strap Test



Tests for falling from height protectors

- Static Force Test of Full Body Harness
- Static Force Test of Safety Rope
- Static Force Test of Energy Emission
- Static Force Test of Connectors
- Static Force Test of Working Positions of Safety Rope and Lanyards
- Dynamic Force Test of Full Body Harness
- Dynamic Force Test of Safety Rope
- Dynamic Force Test of Energy Emission
- Adjustable Safety Belts and Dynamic Tests of Adjustable Safety Belts



3 different test Groups are;

- Eye-Head and Foot Protection Group,
- Fall from Height Protectors Group
- Hand Protectors and Protective Clothing Group

After the tests are done,

- Test results by comparison with the standards reporting to the General Directorate,
- Samples tested at the laboratory are stored for a period of time.

SUMMARY

PPE Test Laboratory is working with;

- ✓ 34 types of equipment,
- ✓ 35 types of methods,
- ✓ 12 + 8 test person

Contribution to the technical committees.

- ✓ Vertical / Horizontal ,etc

THANK YOU...

LABORATORY VISIT