

# Personal protective equipment

## PROTECT AGAINST UNAVOIDABLE HAZARDS AND MINIMIZE THE RISK TO HEALTH AND SAFETY

The human body can be fragile and is susceptible to physical harm from a wide variety of environmental and workplace hazards. Whether we are at work or leisure, personal protective equipment (PPE) shields us from these dangers.

Manufacturers and suppliers of PPE need to be sure their products provide the right level of protection and comply with market regulations.

### WHAT IS PPE?

PPE provides individuals with protection against one or more hazards during recreation or in the workplace.

These may be environmental, skin cancer-causing UV radiation, or the accidental consequence of an activity, such as head injuries on construction sites or burns in the kitchen. Used correctly, the right PPE offers considerable protection against any number of hazards.

PPE is controlled in most markets by a variety of standards, with mandatory testing being required before the product can go on sale to the public.

### SGS SERVICE

Covering the full range of PPE, we offer:

- Product testing
- Category II & III certification
  - SGS FIMKO (NB0598) – Notified Body to PPE Regulation(EU) 2016/425
  - SGS Turkey (NB2218) – Notified Body to PPE Regulation(EU) 2016/425
  - SGS UK (0120) – Approved Body to PPE Regulation 2016/425 as brought into GB law and amended
  - One-stop-shop service for CE and UKCA certification
- Category III production auditing and annual product checks

Our global network of laboratories and experts helps manufacturers to produce high-quality, compliant PPE products. We cover a wide variety of products and standards, including:

### EYE & FACE PROTECTION

Swimming goggles	ISO 18527-3 JIS S7301
Sunglasses	EN ISO 12312-1 ANSI Z80.3, FDA 21 CFR 801.410 AS/NZS 1067 CNS 15067/ GB 39552.1
Diving equipment	EN 16805 (masks)
Ski goggles	EN ISO 18527-1 ASTM F659
Eye and Face protection	EN ISO 16321 Parts 1-3 ANSI Z87.1
For Hockey Players	ASTM F513 CSA Z262.2
For snowmobile users (eye protection)	EN 13178
Motorcycle/moped riders	EN 1938

### PROTECTIVE CLOTHING

Protective clothing – general requirements	EN ISO 13688
Protective clothing – protection against rain	EN 343
High visibility clothing	EN ISO 20471 EN 17353 ANSI/ISEA 107 AS/NZS 1906.4 AS/NZS 4602.1 CSA Z96
Protective clothing – protection against heat and flame	EN ISO 11612
Protective clothing for use in welding and allied processes	EN ISO 11611

**Trusted means *Tested.***

Protective clothing against flame	EN ISO 14116
Electrostatic dissipative protective clothing	EN 1149-5
Protective clothing for use against the thermal hazards of an electric arc	IEC 61482-2 EN 61482-2
Protection against cold environments	EN 342 EN 14058
Protective clothing against dangerous gaseous chemicals	EN 943-1
Protective clothing against liquid chemicals	EN 13034 EN 14605
Protective clothing for use against solid particulates	EN ISO 13982
Protective clothing against infective agents	EN 14216
Protective clothing against radioactive contamination	EN 1073-2
Personal protective equipment - Knee protectors for work in the kneeling position	EN 14404
Protective clothing for users of hand-held chains	EN ISO 11393 series

#### RESPIRATORY PROTECTION

Filtering half masks to protect against particles	EN 149
Half masks and quarter masks	EN 140
Full face masks	EN 136
NIOSH P100 Respirators	TEB-APR-STP0051
NIOSH N95 Respirators	TEB-APR-STP0059
Respirator Breathability	TEB-APR-STP0003 TEB-APR-STP0007

#### DIVING SUITS

Wet suits	EN 14225-1
Dry suits	EN 14225-2
Actively heated or cooled suit systems and components	EN 14225-3
Constant wear suits/abandonment suits	EN ISO 15027-3

#### EQUIPMENT PROVIDING FOOT, LEG & ANTI-SLIP PROTECTION

Safety footwear	EN ISO 20345
Protective footwear	EN ISO 20346
Occupational footwear	EN ISO 20347
Footwear:	EN ISO 20349
Protecting against risks in foundries (Part-1)	
Protection against risks in welding and allied processes (Part-2)	
Footwear for firefighters	EN 15090
Protective footwear for motorcycle riders	EN 13634
Footwear protecting against chemicals	EN 13832 Parts 1-3
Live working:	EN 50321-1
Footwear for electrical protection	
Insulating footwear and overboots	

Safety footwear with resistance to chainsaw cutting	EN ISO 17249 EN ISO 11393-3
Anti-slip devices	No harmonized requirement or standard SGS in-house testing method

#### HAND & ARM PROTECTION

Protective Gloves – general requirements and test methods	EN ISO 21420
Oven gloves and mitts, and pot- holders	EN 407
Protective gloves against cold	EN 511
Protective gloves for motorcycle riders	EN 13594
Protective gloves against chemicals and microorganisms	EN ISO 374 Parts 1-5 EN 16523-1
Protective gloves and other hand protective equipment against thermal risks (theat and/or fire)	EN 407
Protective gloves against mechanical risks	EN 388
Protective gloves for firefighters	EN 659 ISO 15383
Protective gloves for welders	EN 12477
Protective gloves for users of handheld chainsaws	EN ISO 11393-4

#### HEAD PROTECTION

Helmets for industrial use	EN 397 ANSI Z89.1
Industrial bump caps	EN 812
Industrial protective headwear	CSA Z94.1
Occupational protective helmets	AS/NZS 1801
Electrically insulating helmets	EN 50365
Roller sports	EN 1078 CPSC1203 ASTM F1447
Helmets Used for BMX Cycling	ASTM F2032
Helmets Used for Downhill Mountain Bicycle Racing	ASTM F1952
Helmets for use on bicycles and wheeled recreational devices	AS/NZS 2063
Horse riding sports	EN 1384 ASTM F1163 AS/NZS 3838
Snow sports	EN 1077 ASTM F2040
Ice hockey	EN ISO 10256 ASTM F1045
Ice Hockey Helmets	CSA Z262.1
Children's helmets	EN 1080
Canoeing and whitewater sports	EN 1385
Airborne sports	EN 966
Mountaineering	EN 12492
Cricket	BS 7928
Helmets Used in Ice Speed Skating (Long Track) and Short Track Speed Ice Skating (Not to Include Hockey)	ASTM F1849



# Helmet. *Tested.*

## HEARING PROTECTION

Hearing protectors	EN 352 series
General requirements for earmuffs	EN 352-1
General requirements for earplugs	EN 352-2
General requirements for earmuffs attached to head protection and/or face protection devices	EN 352-3
Level-dependent earmuffs	EN 352-4
Active noise reduction earmuffs	EN 352-5
Earmuffs with safety-related audio input	EN 352-6
Level dependent earplugs	EN 352-7
Entertainment audio earmuffs	EN 352-8
Earplugs with safety-related audio input	EN 352-9
Entertainment audio earplugs	EN 352-10

## SPORTS & LEISURE

Roller sports	EN 14120
Motorcyclists	EN 1621 series EN 17092 series
Football	EN 13061
Martial arts	EN 13277 Parts 2-4
Indoor sports	EN 15613
Equestrian	EN 13158 ASTM F 1937
Ice hockey	CEN/TS 15256

## PROTECTION AGAINST FALLS FROM HEIGHT

Full body harness	EN 361 ISO 10333-1 SS 528: Part 1
Belts for work positioning and restraint, work positioning lanyards	EN 358
Rescue harnesses	EN 1497
Harnesses for Rescue and Sport Activities	ASTM F1772
Sit harness	EN 813
Connectors	EN 362
Connectors with self-closing and self-locking gates	ISO 10333-5
Personal fall-arrest systems	SS 528: Part 5
Fall arresters (guided) including flexible anchor line	EN 353 Parts 1-2
Fall arresters (retractable)	EN 360

Lanyards	EN 354
Energy absorbers	EN 355
Self-retracting lifelines	SS 528: Part 3 ISO 10333-3
Lanyards and energy absorbers	SS 528: Part 2 ISO 10333-2

Guided type fall arresters including a flexible anchor line	EN 353-2
Rescue lifting devices	EN 1496

## LIFEJACKETS, BUOYANCY AIDS & SWIMMING AIDS

Buoyancy aid for swimming instruction	EN 13138-1
For swimming, floating garments, collar and chest belts	EN 13138-1
Swimming armbands	EN 13138-1
Backpacks	EN 13138-1
Lifejackets	EN ISO 12402 series

## MOUNTAINEERING TOOLS/EQUIPMENT

Mountaineering equipment – Harnesses	EN 12277
Climbing and Mountaineering – Carabiners	ASTM F1774
Mountaineering equipment – Connectors	EN 12275
Mountaineering equipment – Accessory cords	EN 564
Mountaineering equipment – Slings	EN 566
Mountaineering equipment – Braking devices	EN 15151-1 EN 15151-2
Mountaineering equipment – Rope clamps	EN 567
Mountaineering equipment – Ice tools	EN 13089
Mountaineering equipment – Tape	EN 565
Mountaineering equipment – Pitons	EN 569
Mountaineering equipment – Crampons	EN 893
Mountaineering equipment – Rock anchors	EN 959
Mountaineering equipment – Chocks	EN 12270
Mountaineering equipment – Frictional anchors	EN 12276
Mountaineering equipment – Pulleys	EN 12278
Mountaineering equipment – Individual safety systems for rope courses	EN 17109

EUROPEAN UNION REGULATIONS

PPE products in the EU are regulated under Regulation (EU) 2016/425, which covers most safety products used for domestic, leisure and sports activities, as well as for professional use. It ensures compliance with essential health and safety requirements (EHSR).

Regulation (EU) 2016/425 classifies all PPE into one of three risk categories – I, II and III – each requiring the manufacturer to produce an EU Declaration of Conformity (DoC).

PPE CATEGORY	EXAMPLES OF PRODUCTS	REQUIREMENTS
CATEGORY I products protecting against ‘minimal risks’	Simple gardening equipment Sunglasses	SELF-CERTIFICATION (MODULE A) Manufacturers can self-certify, a process which requires the development of a Technical File, including the manufacturer’s DoC
CATEGORY II products that are neither Category I nor Category III	Safety and sports helmets Safety footwear High visibility clothing	EU/UKCA TYPE EXAMINATION (MODULE B) Manufacturers require an EU/UKCA type examination certificate issued by a Notified Body (EU) or Approved Body (UK). This can be done by developing a Technical File that includes independent testing reports/results
CATEGORY III products protecting against “risks that may cause very serious consequences such as death or irreversible damage to health”	Respiratory protective equipment Fall arrest equipment Chemical protective equipment Hearing protectors	EU/UKCA TYPE EXAMINATION + SURVEILLANCE Manufacturers require an EU/UKCA type examination certificate and ongoing assessment of compliance. The latter requires either: Annual auditing of the manufacturing site by the Notified/ Approved Body to confirm the correct quality management systems are in place to ensure compliant products are produced on an ongoing basis (Module D) Annual compliance testing of selected samples by the Notified/Approved Body (Module C2)

UK POST-BREXIT

As a consequence of Brexit, UK requires compliance with Regulation 2016/425 as brought into GB law and amended. From January 1, 2025, the UK will require a UKCA Declaration of Conformity and the UKCA mark to be applied.

TECHNICAL DOCUMENTATION UNDER REGULATION 2016/425

Regulation 2016/425 technical documentation must include all relevant data on the means used by the manufacturer to ensure that their PPE product complies with all essential requirements. The required documentation is listed in Annex III of the PPE Regulation. EU/UKCA type examination requires a review of the technical documentation by a Notified Body (EU) or Approved Body (UK). This is done against the essential health and safety requirements of Regulation 2016/425 and is normally achieved by meeting the appropriate harmonized standard.

ACCREDITATIONS

We are an accredited Notified Body to the EU’s PPE Regulation 2016/425 in Finland and in Turkey and an accredited Approved Body to the GB PPE Regulation 2016/425 in the UK.  
Our one-stop-shop service can provide simultaneous CE and UKCA certification and, as a part of this solution, we can provide Category III auditing services and compliance testing through our worldwide network of auditors.  
Our laboratories are ISO/IEC 17025 accredited and BSMI approved.

WHY CHOOSE SGS?

As the world’s leading testing, inspection and certification service provider, we operate a global network of state-of-the-art laboratories to help manufacturers produce high-quality and compliant PPE products.  
We are recognized as the global benchmark for sustainability, quality and integrity.

**CONTACT US**

Contact your local SGS office for more information on how SGS can help you to manufacture safe and compliant PPE for European and international markets.



consumer.products@sgs.com



sgs.com/ppe



SGS Connectivity & Products