

Personal Protective Equipment Standards

In response to the European Commission's request and in association with CEN, the European Committee for Standardization, and CENELEC, the European Committee for Electrotechnical Standardization, BSI has made a series of European Standards (ENs) for medical devices and personal protective equipment (PPE) used in the context of the current COVID-19 outbreak available without charge on its website.

The standards, which cover face masks, medical gloves and protective clothing are listed below:

Upload date: 25 March 2020

BS EN 149:2001+A1:2009 *Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking*

BS EN 14683:2019 *Medical face masks. Requirements and test methods.*

BS EN 13795-1:2019 *Surgical clothing and drapes. Requirements and test methods. Surgical drapes and gowns*

BS EN 13795-2:2019 *Surgical clothing and drapes. Requirements and test methods. Clean air suits*

BS EN 14126:2003 *Protective clothing. Performance requirements and tests methods for protective clothing against infective agents*

BS EN 14605:2009+A1:2009 *Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])*

BS EN 166:2002 *Personal eye protection. Specifications*

BS EN 455-1:2000 *Medical gloves for single use. Requirements and testing for freedom from holes (Withdrawn title)*

BS EN 455-2:2015 *Medical gloves for single use. Requirements and testing for physical properties*

BS EN 455-3:2015 *Medical gloves for single use. Requirements and testing for biological evaluation*

BS EN 455-4:2009 *Medical gloves for single use. Requirements and testing for shelf life determination*

BS EN ISO 10993-1:2009 *Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management process*

BS EN ISO 13688:2013 *Protective clothing. General requirements*

BS EN ISO 374-5:2016 *Protective gloves against dangerous chemicals and micro-organisms. Terminology and performance requirements for micro-organisms risks*

Upload date: 2 April 2020

BS EN 29073-3:1992 *Methods of tests for Nonwovens - Part 3: Determination of tensile strength and elongation*

BS EN ISO 139:2005 *Textiles - Standard atmospheres for conditioning and testing*

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BS EN ISO 811:2018 *Textiles - Determination of resistance to water penetration - Hydrostatic pressure test*
BS EN ISO 9073-10:2004 *Textiles - Test methods for nonwovens - Part 10: Lint and other particles generation in the dry state*
BS EN ISO 11737-1:2018 *Sterilization of health care products - Microbiological methods - Part 1: Determination of a population of microorganisms on products*
BS EN ISO 13938-1:2019 *Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension*
BS EN ISO 22612:2005 *Clothing for protection against infectious agents — Test method for resistance to dry microbial penetration*
ISO 22610:2018 *Surgical drapes, gowns and clean air suits, used as medical devices, for patients, clinical staff and equipment - Test method to determine the resistance to wet bacterial penetration*

Upload date: 7 April 2020

BS EN 13034:2005+A1:2009 *Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals (Type 6 and Type PB equipment)*
BS EN ISO 13982-1:2204+A1:2010 *Part 1: Performance requirements for chemical protective clothing providing protection to the full body against airborne solid particulates (type 5 clothing)*

Upload date: 14 April 2020

BS EN 168:2002 *Personal eye-protection - Non-optical test methods* Upload date: 10 June 2020

BS EN 1827:1999+A1:2009 *Respiratory protective devices - Half masks without inhalation valves and with separable filters to protect against gases or vapours and particles or particles only - Requirements, testing, marking*
BS EN 12941:1998+A2:2008 *Respiratory protective devices - Powered filtering devices incorporating a helmet or a hood - Requirements, testing, marking*

BS EN 136:1998 *Respiratory protective devices - Full face masks - Requirements, testing, marking*
BS EN ISO 18526-1:2020 *Eye and face protection - Test methods - Part 1: Geometrical optical properties*
BS EN ISO 18526-3:2020 *Eye and face protection - Test methods - Part 1: Physical and mechanical properties*
BS EN 13274-7:2019 *Respiratory protective devices - Methods of test - Part 7: Determination of particle filter penetration*
BS ISO 16900-1:2019 *Respiratory protective devices - Methods of test and test equipment - Part 1: Determination of inward leakage*
ISO 22609 *Clothing for protection against infectious agents - Medical face masks - Test method for resistance against penetration by synthetic blood (fixed volume, horizontally projected)*
BS EN 1149-1:2006 *Protective clothing - Electrostatic properties - Part 1: Test method for measurement of surface resistivity*

Upload date: 11 June 2020

PD ISO/TS 16976-8:2013 *Respiratory protective devices - Human factors - Part 8: Ergonomic factors* Upload date: 12 June 2020

BS EN 455-1:2020 *Medical gloves for single use - Part 1: requirements for testing for freedom from holes* View standards > (<https://pages.bsigroup.com/l/35972/2020-03-25/2cjt638>)

BSI supports manufacturers with conformity assessments and market surveillance procedures within the context of COVID-19

In addition, as a Notified Body for the PPE Regulation, BSI is committed to supporting the Commission's recommendation to ensure that adequate protection is swiftly made available to those who need it most. Our experts are on hand to discuss the options available to clients and other manufacturers and to ensure compliant products can be placed on the market as quickly as possible so that medical professionals and first responders have access to the equipment they urgently need.