

## British, European and international standards relevant to working in thermal environments

This is a non-exhaustive list of useful standards to refer to when developing your thermal risk assessment:

- BS EN ISO 9886: *Ergonomics. Evaluation of thermal strain by physiological measurements*
- BS EN 28996 *Ergonomics. Determination of metabolic heat production*
- BS EN 27243 *Hot environments. Estimation of the heat stress on working man, based on the WBGT-index (wet bulb globe temperature)*
- BS 7915: *Ergonomics of the thermal environment. Guide to design and evaluation of working practices in cold indoor environments*
- DD ENV ISO 11079: *Evaluation of cold environments. Determination of required clothing insulation (IREQ)*
- BS EN ISO 7730: *Ergonomics of the thermal environment. Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria*
- BS EN ISO 10551: *Ergonomics of the thermal environment. Assessment of the influence of the thermal environment using subjective judgement scales*
- BS EN ISO 12894: *Ergonomics of the thermal environment. Medical supervision of individuals exposed to extreme hot or cold environments*
- BS EN ISO 7933: *Ergonomics of the thermal environment. Analytical determination and interpretation of heat stress using calculation of the predicted heat strain*
- BS 7963: *Ergonomics of the thermal environment. Guide to the assessment of heat strain in workers wearing personal protective equipment*
- BS EN ISO 7726: *Ergonomics of the thermal environment. Instruments for measuring physical quantities*
- BS EN 14058: *Protective clothing. Garments for protection against cool environments*
- BS EN ISO 15265: *Ergonomics of the thermal environment. Risk assessment strategy for the prevention of stress or discomfort in thermal working conditions*
- BS EN 511: *Protective gloves against cold*
- BS EN ISO 13732-3: *Ergonomics of the thermal environment. Methods for the assessment of human responses to contact with surfaces*
- BS EN 563 *Safety of machinery. Temperatures of touchable surfaces. Ergonomics data to establish temperature limit values for hot surfaces*
- BS EN ISO 11399: *Ergonomics of the thermal environment. Principles and application of relevant international standards*
- BS EN ISO 9920: *Ergonomics of the thermal environment. Estimation of thermal insulation and water vapour resistance of a clothing ensemble*
- BS EN ISO 15743: *Ergonomics of the thermal environment. Cold workplaces. Risk assessment and management*

The [most current versions of these British Standards](#) can be obtained in PDF or hard copy formats from BSI. You can also contact BSI Customer Services for hard copies only Tel: 0845 086 9001 email: [cservices@bsigroup.com](mailto:cservices@bsigroup.com).

Further information on thermal comfort is available on the [HSE website](#).