

ISO 7243:2017-08 (E)

Ergonomics of the thermal environment - Assessment of heat stress using the WBGT (wet bulb globe temperature) index

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Method	2
5 Determination of WBGT	3
6 Determination of metabolic rate	3
7 Determination of effects of clothing	3
8 Timing and duration of measurements	4
8.1 Timing of measurements	4
8.2 Duration of measurements	4
9 Spatial and temporal variations	5
9.1 Measurement specifications relating to heterogeneity of environment (spatial variations)	5
9.2 Measurement specifications relating to time variations of WBGT index	5
9.3 Measurement specifications relating to time variations of metabolic rate	5
9.4 Measurement specifications relating to time variations of clothing	5
10 Interpretation	6
Annex A (informative) Reference values of the WBGT heat stress index	7
Annex B (normative) Measurement of parameters used in the WBGT index and specification of instruments	9
Annex C (informative) Alternative globe thermometers	11
Annex D (informative) Prediction of natural wet bulb temperature	13
Annex E (informative) Estimation of metabolic rate	15
Annex F (informative) Clothing adjustment values (CAVs)	16
Bibliography	17