

ISO 13732-1:2006-09 (E)

Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 1: Hot surfaces

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Burn thresholds	3
4.1	General	3
4.2	Burn threshold data	4
5	Assessment of risk of burning	10
5.1	Procedure	10
5.2	Identification of hot, touchable surfaces	10
5.3	Task analysis	11
5.4	Measurements of surface temperatures	11
5.5	Choice of applicable burn threshold value	12
5.6	Comparison of surface temperature and burn threshold	13
5.7	Determination of risk of burning	14
5.8	Repetition	14
6	Protective measures	15
6.1	General	15
6.2	No risk of burning	15
6.3	Risk of burning	15
7	Guidance for setting surface temperature limit values	16
7.1	Procedure	16
7.2	Assessment of risk of burning	16
7.3	Decision upon protective measures	16
7.4	Selection of appropriate values	16
7.5	Setting of surface temperature limit value	17
Annex A (informative)	Scientific background	18
Annex B (normative)	Contact periods	20
Annex D (informative)	Thermal properties of selected materials	23
Annex E (informative)	Examples of protective measures against burns	24
Annex F (informative)	Example for assessment of risk of burning	26
Annex G (informative)	Examples for setting surface temperature limit values	31
Annex H (informative)	Safety signs for hot surfaces	35
Bibliography		37