



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 563:1994

ICS 13.110

**SAFETY OF MACHINERY – TEMPERATURES
OF TOUCHABLE SURFACES –
ERGONOMICS DATA TO ESTABLISH
TEMPERATURE LIMIT VALUES FOR
HOT SURFACES**

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EUROPEAN STANDARD

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NORME EUROPÉENNE

April 2000

EUROPÄISCHE NORM

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English version
Version Française
Deutsche Fassung

Safety of machinery - Temperatures of touchable surfaces - Ergonomics
data to establish temperature limit values for hot surfaces

Sécurité des machines - Températures des
surfaces tangibles - Données
ergonomiques pour la fixation de
températures limites des surfaces chaudes

Sicherheit von Maschinen - Temperaturen
berührbarer Oberflächen - Ergonomische
Daten zur Festlegung von
Temperaturgrenzwerten für heiße
Oberflächen

This corrigendum becomes effective on 19 April 2000 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 19 avril 2000 pour incorporation dans les trois versions linguistiques officielles de l'EN.

Die Berichtigung tritt am 19. April 2000 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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4.2.1 Burn thresholds for a contact period below 1 s

1. *Replace the content of 4.2.1 by:*

"For very short contacts burn threshold values are listed for a contact period of 0,5 s in tables 1 and 2.

Table 1 contains burn threshold spreads for different materials for a contact period of 0,5 s. The specified spreads are extensions of the shaded areas of figures 2, 4, 5 and 6.

Table 1: Burn threshold spreads for a contact period of 0,5 s

Material	Extension of figure No	Burn threshold spread for a contact period of 0,5 s [°C]
Bare (uncoated) metal	2	67 to 73
Ceramics, glass and stone	4	84 to 90
Plastics	5	91 to 99
Wood	6	128 to 155

Table 2 contains the rise of the burn threshold spread for coated metals for a contact period of 0,5 s. The specified values are extensions of the lines in figures 3 a) and 3 b). Absolute values for the burn threshold spreads for coated metals can be obtained by adding the values of table 2 to the burn threshold spread specified in table 1 for bare metal."

Table 2: Rise of burn threshold spread for coated metals for a contact period of 0,5 s

Metals with a coating of	Extension of figure No	Rise of burn threshold spread for a contact period of 0,5 s [°C]
50 µm lac	3 a)	13
100 µm lac	3 a)	22
150 µm lac	3 a)	31
400 µm Rilsan	3 b)	34
90 µm powder	3 b)	11
60 µm powder, 160 µm porcelain enamel	3 b)	6

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