# DIN EN 12853:2012-02 (E)

## Food processing machinery - Hand-held blenders and whisks - Safety and hygiene requirements (includes Amendment A1:2010)

## Contents

Page


Foreword ..... 3

Introduction ..... 4

1 Scope ..... 5

2 !Normative references" ..... 6

3 Terms and definitions - Description ..... 7
3.1 Terms and definitions ..... 7
3.2 Description ..... 7

4 !List of significant hazards ..... 8
4.1 Mechanical hazards" ..... 8
4.2 Electrical hazards ..... 8
4.3 Thermal hazards ..... 8
4.4 Hazards generated by neglecting hygiene principles in machine design ..... 9
4.5 Hazards generated by neglecting ergonomic principles in machine design ..... 9

5 !Safety and hygiene requirements and/or protective measures ..... 9
5.1 General" ..... 9
5.2 Mechanical hazards ..... 9
5.3 !Electrical hazards" ..... 11
5.4 Thermal hazards ..... 12
5.5 Hygiene ..... 12
5.6 Ergonomics ..... 13

6 Verification of safety and hygiene requirements and/or measures ..... 13

7 Information for use ..... 15
7.1 !General" ..... 15
7.2 Instruction handbook ..... 15
7.3 Marking ..... 17

Annex A (normative) Noise test code for hand-held blenders and whisks (Grade 2 of accuracy) ..... 18

Annex B (normative) Principles of design to ensure the cleanability of hand-held blenders and whisks ..... 21

Annex ZA (informative) !Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC" ..... 30

Bibliography ..... 31