DIN EN 746-1:2010-02 (E)

Industrial thermoprocessing equipment - Part 1: Common safety requirements for industrial thermoprocessing equipment (include s Amendment A1:2009)

Contents

Page

Foreword ... 3

Introduction ... 5

1 Scope ... 5

2 Normative references ... 7
2.1 Basic Standards ... 7
2.2 Group Safety Standards ... 7
2.3 Product Safety Standards ... 9

3 Definitions ... 10

4 List of Hazards ... 11

5 Safety requirements, measures and verification means ... 21
5.1 General ... 21
5.2 Mechanical ... 23
5.3 Electrical ... 26
5.4 Thermal ... 28
5.5 Noise ... 30
5.6 Vibration ... 31
5.7 Radiation ... 31
5.8 Materials and substances ... 32
5.9 Ergonomics ... 33
5.10 Hazard combination ... 33
5.11 Malfunction ... 34
5.12 Missing and incorrectly fitted safety devices ... 35

6 Information for use ... 35
6.1 General ... 35
6.2 Marking ... 35
6.3 Technical Data, Installation and Commissioning ... 36
6.4 Instruction Handbook (Operation) ... 37
6.5 Instruction Handbook (Maintenance) ... 39
6.6 Instruction handbook (De-commissioning) ... 41

Annex A (informative) List of Industrial Thermoprocessing Equipment covered by [A1] EN 746-1 [A1] ... 42

Annex B (informative) Typical test report (as described in 6.3.10) ... 44

Annex C (informative) PERMIT to work certificate (as described in 6.5.8) ... 45

Annex D (informative) Used Definitions ... 47
D.1 English, German, French ... 47
D.2 German, English, French ... 48
D.3 French, German, English ... 49

Annex ZA (informative) [A1] Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC [A1] ... 50

Annex ZB (informative) [A1] Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC [A1] ... 51