

DIN EN 746-3:2010-02 (E)

Industrial thermoprocessing equipment - Part 3: Safety requirements for the generation and use of atmosphere gases (includes Amendment A1:2009)

Contents	Page
Foreword.....	3
Introduction	5
1 Scope	5
2 Normative references	6
3 Definitions	7
4 List of hazards.....	10
5 Safety requirements for the use of atmosphere gases.....	16
5.1 Purging	16
5.2 Safety control equipment for atmosphere gases	17
5.3 Thermo-processing equipment requirements	18
6 Safety requirements for atmosphere gas generators	22
6.1 Reaction gas supplies	22
6.2 Fuel gas supplies.....	23
6.3 Air supplies	23
6.4 Mixture supplies.....	24
6.5 Electrical supplies	24
6.6 Cooling water supplies and discharge.....	24
6.7 Atmosphere gas supplies and distribution.....	25
6.8 System requirements	25
7 Verification of the safety requirements and/or measures	27
8 Information for use	27
8.1 Instruction handbook	27
8.2 Marking	30
Annex A (informative) Typical Atmosphere Gases.....	31
Annex B (informative) Explosion Hazards of Gas Mixtures Containing Combustibles.....	32
Annex C (informative) Inert Gas Purging.....	34
Annex D: Bibliography	36
Annex E (informative) Used Definitions	37
Annex ZA (informative) \square_{A1} Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC \square_{A1}	40
Annex ZB (informative) \square_{A1} Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC \square_{A1}	41