# DIN EN 12621:2011-07 (E)

## Machinery for the supply and circulation of coating materials under pressure - Safety requirements (includes Amendment A1:2010)

## Contents

Page


Foreword ..... 4

Introduction ..... 5

1 Scope ..... 6

2 Normative references ..... 7

3 Terms and definitions ..... 9

4 List of significant hazards ..... 12
4.1 General ..... 12
4.2 Mechanical hazards ..... 12
4.3 Electrical hazards ..... 13
4.4 Thermal hazards ..... 13
4.5 Noise hazards ..... 13
4.6 Vibration hazards ..... 13
4.7 Hazards generated by dangerous substances ..... 14
4.8 Fire and explosion hazards generated by coating and/or auxiliary materials under pressure ..... 14
4.9 Hazards caused by failure of energy supply ..... 14
4.10 Hazards related to failure of control systems ..... 15

5 Safety requirements and/or measures ..... 15
5.1 General ..... 15
5.2 Safety requirements and measures against mechanical hazards ..... 15
5.3 Electrical safety requirements ..... 16
5.4 Safety requirements and measures against thermal hazards ..... 17
5.5 Safety requirements relating to noise ..... 18
5.6 Safety requirements relating to vibration ..... 18
5.7 Safety requirements against dangerous substances ..... 18
5.8 Safety requirements and protective measures against fire and explosion ..... 19
5.9 Safety requirements against failure of energy supply ..... 21
5.10 Safety requirements against failure of control systems ..... 21

6 Verification of the safety requirements ..... 21
6.1 General ..... 21
6.2 Mechanical ..... 21
6.3 Electrical ..... 22
6.4 Thermal ..... 22
6.5 Noise ..... 23
6.6 Vibration ..... 23
6.7 Dangerous substances ..... 23
6.8 Fire and explosions ..... 23
6.9 Failure of energy supply ..... 23
6.10 Control systems ..... 24

7 Information for use ..... 24
7.1 General ..... 24
7.2 Instruction handbook ..... 24
7.3 Marking ..... 26

Annex A (informative) National references to exposure limit values ..... 27

Annex B (informative) Relationship between categories and zones ..... 29

Annex C (informative) Classification of construction material’s reaction to fire - National standards ..... 30

**Annex ZA (informative) [A1] Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC [A1]** ..... **31**

**Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 94/9/EC** ..... **32**

**Bibliography** ..... **33**