DIN EN 12921-2:2010-01 (E)

Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 2: Safety of machines using water based cleaning liquids (includes Amendment A1:2008)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 List of significant hazards 7

5 Safety requirements and/or measures 9
5.1 General 9
5.2 Mechanical hazards 9
5.3 Electrical requirements 10
5.4 Safety requirements and measures against thermal hazards 11
5.5 Safety requirements and measures against noise 11
5.6 Safety requirements and measures against hazards generated by materials and substances processed, used or emitted by the cleaning machine 11
5.7 Safety requirements and measures against hazard combinations 14
5.8 Safety requirements and measures against failure of energy supply 14
5.9 Control systems 15

6 Verification of the safety requirements and/or measures 15
6.1 General 15
6.2 Mechanical 15
6.3 Electrical 15
6.4 Thermal 15
6.5 Noise 16
6.6 Material and substances processed, used or emitted by the cleaning machines 16
6.7 Hazard combinations 16
6.8 Failure of energy supply and other functional disorder 16
6.9 Control systems 16

7 Information for use 16
7.1 General 16
7.2 Instruction handbook 17
7.3 Minimum Marking 17

Annex ZA (informative) !Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC, amended by 98/79/EC" 18

Annex ZB (informative) !Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC" 19