

DIN EN 1755:2016-02 (E)

Industrial Trucks - Safety requirements and verification - Supplementary requirements for operation in potentially explosive atmospheres

Contents		Page
European foreword		3
Introduction		4
1 Scope		6
2 Normative references		6
3 Terms and definitions		8
4 Safety requirements and/or protective measures		11
4.1 General		11
4.2 Hot surfaces		12
4.3 Safety shutdown		13
4.4 Mechanically generated sparks		13
4.5 Electrical system		14
4.6 Internal combustion engines		17
4.7 Electrostatic risks		17
4.8 Requirements for brakes, clutches and couplings		21
4.9 Requirements for pneumatic systems		23
4.10 Category 3G trucks equipped with restricted breathing enclosures "nR" and gas detection systems		23
4.11 Flammability of non-metallic materials		25
5 Verification of safety requirements and/or protective measures		26
5.1 Determination of the maximum surface temperatures		26
5.2 Measurement of circuit resistance and capacitance		30
6 Information for use		32
6.1 General		32
6.2 Instruction handbook		32
6.3 Marking		34
6.4 Warning labels		35
Annex A (normative) List of significant hazards		36
Annex B (informative) Relationship between zones (area classification) and truck categories. 37		
Annex C (informative) Typical example of cladding of load handling devices		38
Annex D (informative) Typical examples of non-conductive surface areas according to 4.7.3.1 39		
Annex E (normative) Requirements for transmission belts in accordance with ISO 9563 or ISO 1813		42
Annex F (informative) Significant technical changes between this document and the previous edition of this European Standard		43
Annex G (informative) Warning labels for trucks with restricted breathing enclosure(s)		47
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 94/9/EC		48
Bibliography		51