

DIN EN 3-7:2007-10 (E)

Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods (includes Amendment A1:2007)

| Contents | | Page |
|-----------------|--|-------------|
| Foreword | | 4 |
| 1 | Scope | 5 |
| 2 | Normative references | 5 |
| 3 | Terms and definitions | 5 |
| 4 | General | 7 |
| 4.1 | Description of a portable fire extinguisher | 7 |
| 4.2 | Control of discharge | 8 |
| 4.3 | Operating position | 8 |
| 4.4 | Hose assembly | 8 |
| 4.5 | Propellants | 8 |
| 4.6 | Stored pressure extinguishers | 8 |
| 5 | Testing of portable fire extinguishers | 9 |
| 6 | Nominal charges, filling tolerances and minimum fire performance | 9 |
| 6.1 | Nominal charges | 9 |
| 6.2 | Filling tolerances | 9 |
| 6.3 | !!!!Design of the filling opening, excluding carbon dioxide fire extinguishers | 9 |
| 6.4 | Minimum fire ratings | 9 |
| 7 | Duration of operation, residual charge and operating temperatures | 12 |
| 7.1 | Duration of operation | 12 |
| 7.2 | Residual charge | 13 |
| 7.3 | Commencement of discharge | 13 |
| 7.4 | Effective range of operating temperature | 13 |
| 8 | Retention of propellant | 14 |
| 8.1 | Verification | 14 |
| 8.2 | Acceptance levels | 14 |
| 8.3 | Production leak tests | 14 |
| 9 | Dielectric test for water based extinguishers | 15 |
| 9.1 | General | 15 |
| 9.2 | Required performance | 15 |
| 10 | Requirements for components | 15 |
| 10.1 | General | 15 |
| 10.2 | Operation and emission control mechanisms/devices | 15 |
| 10.3 | Safety devices | 16 |
| 10.4 | Filter for water based portable fire extinguishers | 16 |
| 10.5 | Hose and coupling systems | 16 |
| 10.6 | Control valve | 16 |
| 11 | Means of pressure indication | 17 |
| 11.1 | Pressure gauge | 17 |
| 11.2 | Pressure indicator | 18 |

| | | |
|--|---|----|
| 12 | Horns for carbon dioxide portable fire extinguishers | 18 |
| 13 | Portable fire extinguisher mounting bracket | 19 |
| 14 | Resistance to corrosion | 19 |
| 14.1 | Resistance to external corrosion | 19 |
| 14.2 | Resistance to extinguishing medium of extinguishers using water based media | 19 |
| 15 | Fire performance | 20 |
| 15.1 | General | 20 |
| 15.2 | Class A fire rating | 20 |
| 15.3 | Class B fire rating | 20 |
| 15.4 | !!!!Class F fire rating | 20 |
| 16 | Portable fire extinguisher identification | 20 |
| 16.1 | Colour | 20 |
| 16.2 | Marking | 20 |
| 17 | Maintenance | 24 |
| Annex A (normative) Duration of operation, residual charge tests | | 25 |
| Annex B (normative) Range of operating temperature | | 26 |
| Annex C (normative) Dielectric test | | 27 |
| Annex D (normative) Operation and emission control mechanisms/devices | | 29 |
| Annex E (normative) Test for performance of the hose | | 30 |
| Annex F (normative) Control valve test | | 31 |
| Annex G (normative) Tests on the horn | | 32 |
| Annex H (normative) Resistance to corrosion | | 33 |
| Annex I (normative) Fire tests | | 34 |
| Annex J (normative) Measurement of moisture content of wood | | 42 |
| Annex K (normative) Compaction procedure | | 43 |
| Annex L (normative) !Specific requirements for Class F fire extinguisher | | 45 |
| Annex M (normative) !Polar solvents | | 50 |
| Bibliography | | 52 |