

# DIN EN 1866-1:2007-10 (E)

## Mobile fire extinguishers - Part 1: Characteristics, performance and test methods

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>5</b>
<b>4</b>	<b>Symbols and abbreviations .....</b>	<b>7</b>
<b>5</b>	<b>Description of an extinguisher .....</b>	<b>7</b>
5.1	Type of extinguisher .....	7
5.2	Components of extinguisher .....	8
<b>6</b>	<b>Requirements .....</b>	<b>8</b>
6.1	Effective range of operating temperatures .....	8
6.1.1	General .....	8
6.1.2	Requirements .....	8
6.1.3	Additional Requirements for CO <sub>2</sub> extinguishers .....	9
6.2	Filling specifications .....	9
6.2.1	Nominal charges .....	9
6.2.2	Filling tolerances .....	9
6.2.3	Propelling agent .....	9
6.3	Duration of operation, residual mass and discharge range .....	10
6.3.1	Duration of operation .....	10
6.3.2	Maximum residual mass .....	11
6.4	Retention of propellant .....	11
6.4.1	General .....	11
6.4.2	Propellant container .....	11
6.4.3	Stored pressure extinguishers .....	11
6.4.4	Acceptance levels .....	11
6.5	Control valve .....	12
6.6	Working position .....	12
6.7	Hose and coupling .....	12
6.8	Operation devices .....	12
6.8.1	General .....	12
6.8.2	Operating and jet control mechanisms devices .....	12
6.8.3	Safety devices .....	13
6.8.4	Discharge from water based extinguishers .....	13
6.8.5	Pressure gauge .....	13
6.8.6	Other characteristics .....	15
6.9	Identification .....	16
6.9.1	Colour .....	16
6.9.2	Marking .....	16
6.10	Periodical checking .....	19
<b>7</b>	<b>Tests .....</b>	<b>19</b>
7.1	Temperature test .....	19
7.2	Corrosion tests .....	19
7.2.1	External corrosion test .....	19
7.2.2	Internal corrosion test for water based extinguishers .....	20
7.3	Dielectric test .....	20

<b>8</b>	<b>Fire performances .....</b>	<b>20</b>
<b>8.1</b>	<b>Class A fire test object .....</b>	<b>20</b>
<b>8.1.1</b>	<b>General .....</b>	<b>20</b>
<b>8.1.2</b>	<b>Powder extinguishers .....</b>	<b>20</b>
<b>8.1.3</b>	<b>Water based extinguishers .....</b>	<b>20</b>
<b>8.2</b>	<b>Class B fire test object .....</b>	<b>20</b>
<b>8.2.1</b>	<b>General .....</b>	<b>20</b>
<b>8.2.2</b>	<b>Powder extinguishers .....</b>	<b>21</b>
<b>8.2.3</b>	<b>Water based extinguishers .....</b>	<b>21</b>
<b>8.2.4</b>	<b>CO2 extinguishers .....</b>	<b>22</b>
<b>Annex A (normative) Test methods .....</b>		<b>23</b>
<b>A.1</b>	<b>Test methods .....</b>	<b>23</b>
<b>A.2</b>	<b>Duration of operation and residual mass .....</b>	<b>23</b>
<b>A.3</b>	<b>Measurement of the force .....</b>	<b>23</b>
<b>A.4</b>	<b>Measurement of the energy .....</b>	<b>23</b>
<b>A.5</b>	<b>Measurement of leakage of the control valve .....</b>	<b>23</b>
<b>A.6</b>	<b>Temperatures test .....</b>	<b>24</b>
<b>A.7</b>	<b>Internal corrosion test .....</b>	<b>24</b>
<b>Bibliography .....</b>		<b>25</b>