

# ISO 14520-1:2006-02 (E)

## Gaseous fire-extinguishing systems - Physical properties and system design - Part 1: General requirements

---

<b>Contents</b>		<b>Page</b>
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>2</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>Use and limitations .....</b>	<b>5</b>
<b>5</b>	<b>Safety .....</b>	<b>7</b>
<b>6</b>	<b>System design .....</b>	<b>10</b>
<b>7</b>	<b>Extinguishant system design .....</b>	<b>16</b>
<b>8</b>	<b>Commissioning and acceptance .....</b>	<b>24</b>
<b>9</b>	<b>Inspection, maintenance, testing and training .....</b>	<b>27</b>
<b>Annex A (normative) Working documents .....</b>		<b>30</b>
<b>Annex B (normative) Determination of flame-extinguishing concentration of gaseous extinguishants by the cup burner method .....</b>		<b>32</b>
<b>Annex C (normative) Fire extinguishment/area coverage fire test procedure for engineered and pre-engineered extinguishing units .....</b>		<b>38</b>
<b>Annex D (normative) Method of evaluating inerting concentration of a fire extinguishant .....</b>		<b>58</b>
<b>Annex E (normative) Door fan test for determining of minimum hold time .....</b>		<b>60</b>
<b>Annex F (informative) System performance verification .....</b>		<b>75</b>
<b>Annex G (informative) Safe personnel exposure guidelines .....</b>		<b>76</b>
<b>Annex H (informative) Flow calculation implementation method and flow calculation verification and testing for approvals .....</b>		<b>83</b>