

ISO 15371:2024-06 (E)

Ships and marine technology - Fire-extinguishing systems for protection of galley cooking equipment

Contents

Page

| | |
|---|----------|
| Foreword..... | v |
| Introduction..... | vi |
| 1 Scope..... | 1 |
| 2 Normative references..... | 1 |
| 3 Terms and definitions..... | 1 |
| 4 Components..... | 4 |
| 4.1 General..... | 4 |
| 4.2 Detectors..... | 4 |
| 4.3 Discharge nozzles..... | 4 |
| 4.4 Operating devices..... | 4 |
| 4.5 Manual means of actuation..... | 5 |
| 4.6 Shut-off devices..... | 5 |
| 4.7 Pipe, fittings, tubing and hose..... | 5 |
| 4.8 Extinguishing agent..... | 5 |
| 4.9 Indicator..... | 5 |
| 5 System requirements..... | 6 |
| 5.1 General..... | 6 |
| 5.2 Use..... | 6 |
| 5.3 Applications..... | 6 |
| 5.4 System actuation..... | 6 |
| 5.5 Supervision..... | 7 |
| 5.6 System location..... | 7 |
| 5.7 Discharge nozzles..... | 8 |
| 5.8 Protection to multiple equipment..... | 8 |
| 5.9 Protection of common exhaust duct..... | 8 |
| 6 Test methods..... | 9 |
| 6.1 Cooking equipment extinguishing tests..... | 9 |
| 6.1.1 General..... | 9 |
| 6.1.2 Deep fat fryer..... | 10 |
| 6.1.3 Griddle..... | 11 |
| 6.1.4 Range top..... | 11 |
| 6.1.5 Gas radiant char broiler..... | 12 |
| 6.1.6 Electric char-broiler..... | 12 |
| 6.1.7 Lava, pumice or synthetic rock char-broiler..... | 12 |
| 6.1.8 Natural charcoal broiler..... | 13 |
| 6.1.9 Mesquite wood char-broiler..... | 13 |
| 6.1.10 Upright broiler..... | 13 |
| 6.1.11 Chain broiler..... | 14 |
| 6.1.12 Wok..... | 14 |
| 6.2 Splash tests..... | 15 |
| 6.2.1 General..... | 15 |
| 6.2.2 Deep fat fryer extinguishing splash tests..... | 15 |
| 6.2.3 Deep fat fryer cooking temperature splash test..... | 15 |
| 6.2.4 Range top extinguishing splash tests..... | 16 |
| 6.2.5 Range top cooking temperature splash tests..... | 16 |
| 6.2.6 Wok extinguishing splash tests..... | 17 |
| 6.2.7 Wok cooking temperature splash tests..... | 17 |

| | | |
|----------|--|-----------|
| 6.3 | Hood and duct (full scale) extinguishing test..... | 18 |
| 6.3.1 | General..... | 18 |
| 6.3.2 | Hood..... | 18 |
| 6.3.3 | Filter and frame..... | 18 |
| 6.3.4 | Duct..... | 19 |
| 6.4 | Extinguishing system unit test..... | 20 |
| 6.4.1 | Preparation..... | 20 |
| 6.4.2 | General test procedures..... | 21 |
| 6.4.3 | Fuel ignition and extinguishing system unit operation..... | 21 |
| 6.4.4 | Plenum testing..... | 22 |
| 6.4.5 | Conditions of acceptability..... | 22 |
| 7 | Installation and maintenance manual..... | 22 |
| 8 | Owner's manual..... | 24 |
| 9 | Test report..... | 25 |
| | Bibliography..... | 26 |