ISO 1496-3:2019 (E)

Series 1 freight containers — Specification and testing — Part 3: Tank containers for liquids, gases and pressurized dry bulk

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Dimensions and ratings

- 4.1 External dimensions
- 4.2 Ratings

5 Design requirements

- 5.1 General
- 5.2 Corner fittings
- 5.2.1 General
- 5.2.2 Doubler plates
- 5.3 Base structure
- 5.4 End structure
- 5.5 Side structure
- 5.6 Tank
- 5.6.1 Design and construction
- 5.6.2 Corrosion allowance
- 5.6.3 Tank openings
- 5.6.4 Pressure and vacuum relief devices
- 5.6.5 Inspection and maintenance openings
- 5.6.6 Gauging devices
- 5.6.7 Sealing (customs requirements)
- 5.7 Optional features
- 5.7.1 Gooseneck tunnels
- 5.7.2 Walkways
- 5.7.3 Ladders
- 5.7.4 Tank insulation
- 5.7.5 Tank heating and refrigeration

6 Testing

- 6.1 General
- 6.2 Test No. 1 — Stacking
- 6.2.1 General
- 6.2.2 Procedure
- 6.2.3 Requirements
- 6.3 Test No. 2 — Lifting from the four top corner fittings
- 6.3.1 General
- 6.3.2 Procedure
- 6.3.3 Requirements
- 6.4 Test No. 3 — Lifting from the four bottom corner fittings
- 6.4.1 General
- 6.4.2 Procedure
- 6.4.3 Requirements
- 6.5 Test No. 4 — External restraint (longitudinal)
- 6.5.1 General
- 6.5.2 Procedure
- 6.5.3 Requirements

6.6 Test No. 5 — Internal restraint (longitudinal) (dynamic)
6.6.1 General
6.6.2 Procedure
6.6.3 Requirements
6.7 Test No. 6 — Internal restraint (lateral)
6.7.1 General
6.7.2 Procedure
6.7.3 Requirements
6.8 Test No. 7 — Rigidity (transverse)
6.8.1 General
6.8.2 Procedure
6.8.3 Requirements
6.9 Test No. 8 — Rigidity (longitudinal)
6.9.1 General
6.9.2 Procedure
6.9.3 Requirements
6.10 Test No. 9 — Load-transfer area test
6.10.1 General
6.10.2 Procedure
6.10.3 Requirements
6.11 Test No. 10—Walkways (where provided)
6.11.1 General
6.11.2 Procedure
6.11.3 Requirements
6.12 Test No. 11 — Ladders (where provided)
6.12.1 General
6.12.2 Procedure
6.12.3 Requirements
6.13 Test No. 12 — Pressure test
6.13.1 General
6.13.2 Procedure
6.13.3 Requirements

7 Identification and marking

Annex A (normative) Diagrammatic representation of capabilities appropriate to all types and sizes of tank containers, except where otherwise stated

Annex B (normative) Dynamic longitudinal impact test

B.1 Test sample
B.2 Test apparatus
B.2.1 Test platform
B.2.2 Impact creation
B.2.3 Measuring/recording system
B.2.3.1 General
B.2.3.2 Apparatus
B.2.4 Procedure
B.2.5 Analysis/processing of data
B.2.5.1 Data reduction system
B.2.5.2 Method for scaling measured acceleration versus time history values to compensate for under or over mass containers.
B.2.6 Defective accelerometer signal
B.2.7 Optional test method
B.2.8 Recording of data

Page count: 25