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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 20895.1-2025

Replacing GB/T 20895.1-2007

**Small craft - Stability and buoyancy assessment and
categorization - Part 1: Non-sailing boats of hull length greater
than or equal to 6 m**

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 1 of GB/T 20895 "Assessment and classification of stability and buoyancy of small craft". GB/T 20895 has been published.

The following parts.

- Part 1: Non-sail boats with a hull length of not less than 6 m;
- Part 2: Sailing boats with a hull length of not less than 6 m;
- Part 3: Boats with a hull length of less than 6 m.

This document replaces GB/T 20895.1-2007 "Assessment and classification of stability and buoyancy of small craft - Part 1.hull length not less than Compared with GB/T 20895.1-2007, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Added the definitions of fully enclosed boats, partially protected boats and habitable boats (see 3.1.6, 3.1.7 and 3.1.8);
- Added the definition of nominal sail area (see 3.3.8);
- Changed the definition of empty boat state (see 3.4.1, 2007 edition 3.4.1), added light boat state, maximum load, maximum load state Definitions of full load arrival state and fully loaded arrival state (see 3.4.2, 3.4.4, 3.4.5 and 3.4.6);
- Added the definitions of basic safety equipment, concave water retention level, standard equipment, and navigation (see 3.5.5, 3.5.9, 3.5.12, 3.5.14);
- Added requirements for sinking water inlet openings (see 6.1.1.3);
- Changed the offset load test (see 6.2, 6.2 of the 2007 edition);
- Changed the requirements for wind-induced heel (see 6.4.3, 6.4 of the 2007 edition);
- Added the requirements for concave body dimensions (see 6.5);
- Added tests, calculations and requirements for habitable multi-hull craft (see 6.6);
- Added tests, calculations and requirements for power sailing boats (see 6.7);
- Changed the buoyancy requirements (see 6.8, 6.5 of the 2007 edition);
- Added provisions for water monitoring and drainage (see 6.9);
- Changed the complete method of required sinking height (see Appendix A, Appendix A

of the 2007 edition);

--- Changed the offset load test method (see Appendix B, Appendix B of the 2007 edition);

--- Changed the method for determining the restoring torque curve (see Appendix E, Appendix D of the 2007 edition);

--- Changed the contents of the Owner's Manual (see Appendix H, Appendix G of the 2007 edition).

This document is equivalent to ISO 12217-1:2022 "Assessment and classification of stability and buoyancy of small craft - Part 1: Craft of not less than hull length" 6m non-sailing boat.

Introduction

GB/T 20895 "Assessment and classification of stability and buoyancy of small boats" provides the assessment and classification of stability and buoyancy of small boats, which consists of three parts.

constitute.

--- Part 1: Non-sail boats with a hull length of not less than 6 m. The purpose is to give the stability of non-sail boats with a hull length of not less than 6 m.

Evaluation and classification of stability and buoyancy, using this part to assess stability and buoyancy, assigning a value to each boat that matches its design load and maximum Design category (A, B, C or D) appropriate for large loads.

--- Part 2: Sailboats with a hull length of not less than 6 m. The purpose is to give the stability and buoyancy of sailboats with a hull length of not less than 6 m.

This part is used to evaluate the stability and buoyancy of each boat and to assign a load rating corresponding to its design load and maximum load.

The design category (A, B, C or D) is appropriate for the load.

--- Part 3: Boats with a hull length of less than 6 m. The purpose is to provide an assessment of the stability and buoyancy of boats with a hull length of less than 6 m this part is used to evaluate the stability and buoyancy of each boat and to assign a load rating appropriate to its design load and maximum load.

Design category (C or D).

Assessment and classification of stability and buoyancy of small boats Part 1:
Non-sailboats with a hull length of not less than 6m

NOTE: Compliance with the requirements of this document does not guarantee that the boat is 100% safe or that there is no risk of capsizing or sinking.