

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

SN/T 2389.15-2016

**Rules for measurement survey on import and export
commodities--Part 15: Static measurement of liquefied natural
gases in cargo tanks of vessel**

(English Translation)

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Foreword

SN/T 2389 "Import and Export Commodity Container Weight" has been or is scheduled to be released the following sections.

- Part 1. Terminology;
- Part 2. static weight of vertical metal cans on animal and plant shoreline;
- Part 3. Austrian oil on the shore of the vertical metal cans static weight;
- Part 4. Static weight of liquefied petroleum gas (LPG) - Part 5. Static weight of vertical metal cans on oil shore;
- Part 6. Judgment of the fullness of the inter-bank pipeline;
- Part 7. Automatic measurement of vertical metal pressure tank (non-frozen) level on shore;
- Part 8. Ori Oil tank static weight;
- Part 9. Estimation of the volume of cargo ship shipments;
- Part 10. Static weighting for liquid chemicals;
- Part 11. Liquid chemicals - Vertical metal tanks on shore;
- Part 12. Static weight of asphalt cabin;
- Part 13. Static weight of oil and its liquid products;
- Part 14. Automatic level measurement of vertical metal cans on shore;
- Part 15. Static weight of liquefied natural gas.

This section is part 15 of SN/T 2389.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part is headed by the National Certification and Accreditation Administration Committee.

This part of the drafting unit. the People's Republic of China Shenzhen Entry - Exit Inspection and Quarantine Bureau, Shenzhen Inspection and Quarantine Science Research Institute.

1 Scope

This part of the SN/T 2389 specifies the calculation method, procedures and methods for calculating the weight and energy of liquefied natural gas loaded and unloaded by ships Claim.

This part applies to the weight and energy calculation of liquefied natural gas loaded and unloaded by ships.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

Representation and Judgment of Numerical Correction Rule and Limit Value of GB/T 8170
Composition analysis of natural gas - Gas chromatographic method GB/T GB/T 20603
cryogenic light hydrocarbon fluid liquefied natural gas sampling continuous method ISO
6578 frozen hydrocarbon fluid static measurement method
(Refrigeratedhydrocarbonliquids-Staticmeas-urement-Calculationprocedure)

3 Terms and definitions

The following terms and definitions apply to this document.

Thermal correction factor the volume of the liquefied natural gas at any temperature in the cargo space of the ship is corrected to the volume of the volume at the reference temperature.

Note: rewrite GB/T 24964-2010, definition 3.6.

4 Measurement accuracy

The measurement, calculation data should be in accordance with the provisions of GB/T 8170 revision, the accuracy requirements in Table 1.

Table 1 measurement, calculation of data accuracy requirements

Project unit

Accuracy

Measurement calculation Level height m 0.001 0.001 Ship water ruler m (in) 0.01 (0.5) 0.01
(0.01) Temperature °C 0.1 0.1