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

GB/T 35176.2-2017

**Ships and marine technology -- Marine NOx reduction agent
AUS40 -- Part 2: Test methods**

船舶与海上技术 船舶氮氧化物还原剂AUS40 第2部分：测试方法
(English Translation)

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Foreword

GB/T 35176 "ship and marine technology nitrogen oxide reductant AUS40" is divided into three parts.

- Part 1. Quality requirements;
- Part 2. Test methods;
- Part 3. Handling, transport and storage.

This section GB/T 35176 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with the international standard ISO 18611-2:2014 "ship and marine technology NOx reductant AUS40 Part 2. Test Methods. " the documents of our country that are consistent with the corresponding international documents that are normative references in this section are as follows.

- GB/T 1884-2000 Crude petroleum and liquid petroleum products - Determination of density (Densitometer method) (eqvISO 3675.1998)
- GB/T 6682-2008 analytical laboratory specifications and test methods (ISO 3696:1987, MOD)
- GB/T 6683-1997 Petroleum products - Test methods - Determination of precision data (ISO 4259:1992, NEQ)
- GB/T 12999-1991 Technical Specifications for the Storage and Management of Water Sampling Samples (ISO 5667-3:1985, NEQ)
- SH/T 0604-2000 Determination of density of crude oil and petroleum products (U-tube method) (eqvISO 12185.1996) this part is proposed by China State Shipbuilding Corporation.

This part of the National Standardization Technical Committee marine machinery (SAC/TC137) centralized.

This part of the drafting unit. China Shipbuilding Industry and Technology Institute of integrated economy, Shanghai Molten Ship Marine Engineering Technology Co., Ltd., Hall Bin Engineering University, Weichai Heavy Machinery Co., Ltd., Hudong Heavy Machinery Co., Ltd.

1 Scope

This section provides the provisions of GB/T 35176.1 ship NO_x reductant --- concentration of 40% aqueous urea solution (the following Jane Called AUS40) quality characteristic test method.

This section applies to the ship engine and boiler exhaust gas treatment using a selective catalytic reduction system (SCR).

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 3675 Crude petroleum and liquid petroleum products - Determination of density test (Densometer method) (Crudepetroleumandliquid petroleumproducts-Laboratorydeterminationofdensity-Hydrometermethod) ISO 3696 analytical laboratory water specifications and test methods (Waterforanalyticallaboratoryuse-Specification andtestmethods) ISO 4259 petroleum products test method for determining the accuracy of data (Petroleumproducts-Determinationandappli-cationofprecisiondatainrelationtomethodsoftest) ISO 5661 petroleum products hydrocarbon liquid refractive index determination (Petroleumproducts-Hydrocarbonliquids- De-terminationofrefractiveindex) ISO 5667-3 Water quality sampling and preservation of technical specifications (Waterquality-Sampling-Part 3.preser-vationandhandlingofwatersamples) ISO 12185 crude oil and petroleum products densitometry (U-tube method) (Crudepetroleumandliquidpetroleum products-Determinationofdensity-OscilatingU-tubemethod)

3 General rules

The quality characteristics of the AUS40 shall be tested in accordance with the test methods specified in Appendices B to J of this part to verify compliance with the ISO 18611-1 Table 1 provides the limit requirements. Density shall be measured in accordance with ISO 3675 or ISO 12185.

Note: "% (M/m)" and "% (V/V)" in this section represent the mass fraction and volume fraction of the material, respectively.

4 Sampling

Sampling shall be carried out in accordance with appendix A

5 Accuracy and disagreement

General 5.1

According to ISO 4259 requirements, all test methods covered in this section should include a description of the accuracy. When disagreement can follow