
**Diesel engines — NO_x reduction agent
AUS 32 —**

**Part 2:
Test methods**

*Moteurs diesel — Agent AUS 32 de réduction des NO_x —
Partie 2: Méthodes d'essai*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 34, *Propulsion, powertrain and powertrain fluids*.

This second edition cancels and replaces the first edition (ISO 22241-2:2006), which has been technically revised. It also incorporates the Technical Corrigendum ISO 22241-2:2006/Cor. 1:2008. The main changes compared to the previous edition are as follows:

- Major revisions to test methods of [Annex C](#) and [Annex I](#),
- Precision values for all test methods were revised,
- [Annex K](#) was updated.

A list of all parts in the ISO 22241 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Diesel engines — NO_x reduction agent AUS 32 —

Part 2: Test methods

WARNING — The use of this document can involve hazardous materials, operations and equipment. This document does not purport to address all the safety issues associated with its use. It is the responsibility of users of this document to respond appropriately to ensure the safety and health of personnel prior to application of the document.

1 Scope

This document specifies test methods required for determination of the quality and chemical characteristics of NO_x reduction agent AUS 32 (aqueous urea solution) as specified in ISO 22241-1.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

ISO 4259 (all parts), *Petroleum and related products — Precision of measurement methods and results*

ISO 12185, *Crude petroleum and petroleum products — Determination of density — Oscillating U-tube method*

ISO 17034, *General requirements for the competence of reference material producers*

ISO 22241-1, *Diesel engines — NO_x reduction agent AUS 32 — Part 1: Quality requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 22241-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

certified reference material

CRM

substance or material used to check the quality and metrological traceability of products, to validate analytical measurement methods or for the calibration of instruments

4 Specifications

Conformance with the limits specified in ISO 22241-1 shall be determined by the test methods specified in [Annexes B](#) through [I](#) of this document. If necessary, the identity of the product can be determined as specified in [Annex J](#).