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

**Part 1:
Quality requirements**

*Moteurs diesel — Agent AUS 32 de réduction des NO_x —
Partie 1: Exigences de qualité*



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Foreword

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ISO 22241-1 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 5, *Engine tests*.

This first edition cancels and replaces ISO/PAS 22241-1:2005, which has been technically revised.

ISO 22241 consists of the following parts, under the general title *Diesel engines — NO_x reduction agent AUS 32*:

— *Part 1: Quality requirements*

— *Part 2: Test methods*

The following parts are under preparation:

— *Part 3: Packaging, transportation and storage*

— *Part 4: Refilling interface*

Annexes A, B and C are for information only.

Introduction

In order to protect the environment, keeping the air quality as clean as possible, exhaust emissions regulations around the world have been strengthened considerably. In motor vehicles with diesel engines, particulate matters (PM) and nitrogen oxide (NOx) emissions are the main concern, and efforts have been focused on the development of technology which can reduce them effectively with minimum fuel economy penalty. Selective catalytic reduction (SCR) converters using urea solution as the reduction agent is considered to be a key technology for reducing NOx emissions. The quality of the urea solution used for that technology needs to be specified to ensure reliable and stable operation of the SCR converter systems. The ISO 22241 series provides the specifications for quality characteristics, for handling, transportation and storage and for the refilling interface as well as the test methods, needed by the manufacturers of motor vehicles and their engines, by converter manufacturers, by producers and distributors of the urea solution and by fleet operators.

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