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Earth-moving machinery — Performance requirements for non-metallic fuel tanks



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Preface

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment.

The objective of this document is to give the performance requirements for non-metallic fuel tanks used by earth-moving machinery as defined in ISO 6165.

This document is identical with, and has been reproduced from, ISO 21507:2010, *Earth-moving machinery — Performance requirements for non-metallic fuel tanks*.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 21507 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 1, *Test methods relating to safety and machine performance*.

This second edition cancels and replaces the first edition (ISO 21507:2005), which has been technically revised.

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Australian Standard®

Earth-moving machinery — Performance requirements for non-metallic fuel tanks

1 Scope

This International Standard gives the performance requirements for non-metallic fuel tanks used by earth-moving machinery as defined in ISO 6165.

2 Normative references

The following referenced documents are indispensable for the application 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 3411, *Earth-moving machinery — Physical dimensions of operators and minimum operator space envelope*

ISO 3795, *Road vehicles, and tractors and machinery for agriculture and forestry — Determination of burning behaviour of interior materials*

ISO 6165, *Earth-moving machinery — Basic types — Identification and terms and definitions*

ISO 11469, *Plastics — Generic identification and marking of plastics products*

UNECE R 34:2003, *Uniform provisions concerning the approval of vehicles with regard to the prevention of fire risks, as amended*[1)]

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
non-metallic fuel tank
enclosed compartment on a machine made of a non-metallic material that holds fuel

3.2
operator station
space on the machine where the operator is stationed to control the machine functions

3.3
tank installation
system that includes the non-metallic tank, the filler cap and any pipes or tubes that are connected to the tank

3.4
machine ignition temperature area
area on a machine where components have hot surfaces greater than 200 °C and could ignite materials or fuel in direct contact or close proximity

EXAMPLE Engine exhaust manifold system.

1) United Nations Economic Commission for Europe regulation.

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