INTERNATIONAL STANDARD

ISO 3529-1

Second edition 2019-07

Vacuum technology — Vocabulary —

Part 1: **General terms**

Technique du vide — Vocabulaire — Partie 1: Termes généraux

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Introduction

If difficulties arise in the use of the definitions in connection with measurement of some quantities, it is recommended that reference be made to the International Standards related to the measurement of those quantities for the practical interpretation of the terms.

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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 of 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 112, Vacuum technology.

This second edition cancels and replaces the first edition (ISO 3529-1:1981), which has been technically revised. The main changes compared to the previous edition are as follows:

- standard conditions which are defined elsewhere were removed;
- ranges of vacuum were newly defined and reasons given;
- new term ultra clean vacuum was defined;
- knudsen number and rarefaction parameter were included;
- slip flow was defined;
- specific desorption, outgassing, and evaporation rate were newly defined;
- accommodation factor distinguished in energy and momentum accommodation factor.

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.

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