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Gears — Wear and damage to gear teeth —

Part 1: Nomenclature and characteristics

Engrenages — Usure et défauts des dentures —

Partie 1: Nomenclature et caractéristiques

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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 60, *Gears*, Subcommittee SC 1, *Nomenclature and wormgearing*.

This first edition of ISO 10825-1, together with ISO/TR 10825-2, cancels and replaces ISO 10825:1995, which has been technically revised.

The main changes are as follows:

— the document has been split into two parts: ISO 10825-1 and ISO/TR 10825-2 that gives additional information on failure modes;

— some additional modes of failures are described;

— most figures have been replaced and are in colour.

A list of all parts in the ISO 10825 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.

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Introduction

This document provides a common language to describe gear wear and failure and serves as guidelines to uniformity and consistency in the use of that language. It describes the appearance of gear tooth failure modes. It is intended to improve communication between equipment users and gear manufacturers for failure and wear analysis. Since there can be many different causes for each type of gear tooth wear or failure, it is not possible in this document to identify a single cause for each type of wear or failure, nor to prescribe remedies.

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