

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 2220 : 2023
(JGI/JSA)
Lubricating grease

ICS 75.100;75.140

Reference number: JIS K 2220 : 2023 (E)

Date of Establishment: 1959-03-30

Date of Revision: 2023-12-20

Date of Public Notice in Official Gazette: 2023-12-20

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area

JIS K 2220 : 2023, First English edition published in 2025-11

Translated and published by: Japanese Standards Association
Mita Avanti, 3-11-28, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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Printed in Japan

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Grease Institute (JGI)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS K 2220 : 2013**), which has been technically revised.

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Lubricating grease

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 2137 : 2020**, Edition 4, **ISO 2176 : 1995**, Edition 2, **ISO 6743-9 : 2003**, Edition 2 and **ISO 11009 : 2021**, Edition 2, with some modifications of the technical contents to meet the situations in Japan.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standards. A list of modifications with the explanations is given in Annex JF.

1 Scope

This Standard specifies requirements for the greases (including gear compounds) to be mainly used as the lubricants for various types of machine parts.

WARNING Persons carrying out tests based on this Standard should be familiar with normal laboratory practice. This Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices.

NOTE The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 2137 : 2020 *Petroleum products and lubricants — Determination of cone penetration of lubricating greases and petrolatum*

ISO 2176 : 1995 *Petroleum products — Lubricating grease — Determination of dropping point*

ISO 6743-9 : 2003 *Lubricants, industrial oils and related products (class L) — Classification — Part 9: Family X (Greases)*

ISO 11009 : 2021 *Petroleum products and lubricants — Determination of water washout characteristics of lubricating greases* (Overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 1521 *Rolling bearings — Deep groove ball bearings*