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(JGI/JSA)

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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	3
4 Classification of greases .....	6
5 Quality and performance .....	9
5.1 Greases for general purpose .....	9
5.2 Greases for rolling bearing .....	9
5.3 Chassis greases for automobile Class 1 .....	12
5.4 Greases for wheel bearing for automobile Class 1 .....	13
5.5 Greases for centralized lubrication system .....	13
5.6 Greases for heavy load Class 1 .....	16
5.7 Gear compounds Class 1 .....	17
6 Classification of test methods .....	17
7 Test method for cone penetration .....	18
7.1 Principle of test .....	18
7.2 Test apparatus .....	18
7.3 Sampling method and preparation method of sample .....	28
7.4 Procedures for unworked penetration test using full-scale cone .....	28
7.5 Procedures for worked penetration test using full-scale cone .....	30
7.6 Procedures for prolonged worked penetration test using full-scale cone .....	32
7.7 Procedures for block penetration test using full-scale cone .....	32
7.8 Procedures for unworked penetration test using one-half scale cone or one-quarter scale cone .....	33
7.9 Procedures for worked penetration test using one-half scale cone or one- quarter scale cone .....	34
7.10 Calculation method and precision .....	34
7.11 Report on test results .....	35
8 Determination of dropping point .....	36
8.1 Principle of test .....	36
8.2 Test apparatus .....	36
8.3 Sampling method and preparation method of sample .....	37
8.4 Test procedures .....	37
8.5 Calculation method and precision .....	42
8.6 Report on test results .....	42

9	Test method for copper strip corrosion .....	42
9.1	Principle of test .....	42
9.2	Reagents .....	42
9.3	Test apparatus .....	43
9.4	Test piece and others .....	44
9.5	Sampling method and preparation method of sample .....	45
9.6	Preparation of test .....	45
9.7	Test procedures .....	45
9.8	Test results .....	46
9.9	Report on test results .....	46
10	Test method for evaporation loss .....	46
10.1	Principle of test .....	46
10.2	Test apparatus .....	46
10.3	Sampling method and preparation method of sample .....	48
10.4	Test procedures .....	48
10.5	Calculation method and precision .....	48
10.6	Report on test results .....	49
11	Test method for oil separation percentage .....	49
11.1	Principle of test .....	49
11.2	Test apparatus .....	49
11.3	Sampling method and preparation method of sample .....	51
11.4	Test procedures .....	51
11.5	Calculation method and precision .....	52
11.6	Report on test results .....	52
12	Test method for oxidation stability .....	52
12.1	Principle of test .....	52
12.2	Reagents and materials .....	52
12.3	Test apparatus .....	53
12.4	Sampling method and preparation method of sample .....	56
12.5	Preparation of test .....	57
12.6	Test procedures .....	57
12.7	Calculation method and precision .....	57
12.8	Report on test results .....	58
13	Test method for foreign substances .....	58
13.1	Principle of test .....	58
13.2	Test apparatus .....	59
13.3	Sampling method and preparation method of sample .....	59
13.4	Test procedures .....	59
13.5	Calculation method and precision .....	60
13.6	Report on test results .....	61
14	Test method for ash content .....	61
14.1	Principle of test .....	61
14.2	Reagent .....	61

14.3	Test apparatus .....	61
14.4	Sampling method and preparation method of sample .....	62
14.5	Test procedures .....	62
14.6	Calculation method and precision .....	62
14.7	Report on test results .....	63
15	Test method for worked stability .....	63
15.1	Principle of test .....	63
15.2	Test apparatus .....	63
15.3	Sampling method and preparation method of sample .....	64
15.4	Test procedures .....	64
15.5	Calculation method and precision .....	65
15.6	Report on test results .....	65
16	Test method for water washout characteristics .....	65
16.1	Principle of test .....	65
16.2	Reagents .....	65
16.3	Test apparatus .....	66
16.4	Sampling method and preparation method of sample .....	68
16.5	Preparation of test .....	68
16.6	Test procedures .....	69
16.7	Calculation method and precision .....	70
16.8	Report on test results .....	71
17	Test method for leakage tendency .....	71
17.1	Principle of test .....	71
17.2	Reagent .....	71
17.3	Test apparatus .....	71
17.4	Sampling method and preparation method of sample .....	77
17.5	Preparation of test .....	77
17.6	Test procedures .....	77
17.7	Calculation method and precision .....	78
17.8	Report on test results .....	78
18	Test method for low temperature torque .....	78
18.1	Principle of test .....	78
18.2	Reagent .....	78
18.3	Test apparatus .....	78
18.4	Sampling method and preparation method of sample .....	80
18.5	Preparation of test .....	80
18.6	Test procedures .....	81
18.7	Calculation method and precision .....	84
18.8	Report on test results .....	84
19	Test method for apparent viscosity .....	85
19.1	Principle of test .....	85
19.2	Test apparatus .....	85
19.3	Calibration .....	86

19.4	Sampling method and preparation method of sample .....	87
19.5	Test procedures .....	87
19.6	Calculation method and precision .....	91
19.7	Measuring method for apparent viscosity at low slip rate .....	92
19.8	Report on test results .....	92
20	Test method for load carrying capacity by Timken method .....	93
20.1	Principle of test .....	93
20.2	Reagents .....	93
20.3	Test apparatus .....	93
20.4	Sampling method and preparation method of sample .....	94
20.5	Preparation of test .....	94
20.6	Test procedures .....	95
20.7	Results and precision .....	95
20.8	Report on test results .....	95
21	Humidity cabinet test method .....	95
21.1	Principle of test .....	95
21.2	Reagent .....	95
21.3	Test apparatus .....	95
21.4	Sampling method and preparation method of sample .....	96
21.5	Preparation of test .....	96
21.6	Test procedures .....	96
21.7	Calculation method and precision .....	96
21.8	Report on test results .....	96
22	Test method for water content .....	97
23	Test method for kinematic viscosity .....	97
24	Test method for flash point .....	97
25	Test method for load carrying capacity (Soda-type four-ball test method) .....	97
26	Test method for ability to lubricate under high load (Shell-type four-ball test method) .....	97
27	Designation of products .....	97
28	Marking .....	97
Annex JA (normative)	Classification of greases according to ISO .....	98
Annex JB (informative)	Test method for undisturbed penetration .....	102
Annex JC (informative)	Test method for determinations of free acid, free alkali and insoluble carbonates .....	104
Annex JD (informative)	Test method for open type evaporation loss .....	108
Annex JE (informative)	Test method for sulfated ash content .....	113
Annex JF (informative)	Comparison table between JIS and corresponding International Standards .....	117

## 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*