

Lubricants, industrial oils and related products (class L) —

Part 2: Classification for family F (spindle bearings, bearings and associated clutches)

[ISO title: Lubricants, industrial oils and related products
(class L) — Classification — Part 2: Family F (Spindle bearings,
bearings and associated clutches)]

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Petroleum Standards Committee (PTC/-) to Technical Committee PTC/7 upon which the following bodies were represented:

Association of Hydraulic Equipment Manufacturers
 British Electrical and Allied Manufacturers' Association (BEAMA)
 British Gas Corporation
 British Gear Manufacturers' Association
 British Lubricants Federation Limited
 British Railways Board
 British Refrigeration and Air Conditioning Association
 Department of Industry (National Engineering Laboratory)
 Electricity Supply Industry in England and Wales
 Engineering Equipment and Materials Users' Association
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This British Standard, having been prepared under the direction of the Petroleum Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 October 1983

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National foreword

This Part of this British Standard has been prepared under the direction of the Petroleum Standards Committee in order to provide a classification scheme for lubricants, industrial oils and related products. It is identical with ISO 6743-2:1981 “*Lubricants, industrial oils and related products (class L) — Classification — Part 2: Family F (Spindle bearings, bearings and associated clutches)*”, published by the International Organization for Standardization (ISO). ISO 6743-2 was prepared as the result of discussions in Subcommittee 4, Classifications and specifications, of Technical Committee 28, Petroleum products and lubricants, in which the UK has participated.

A general classification of petroleum products prepared in ISO/TC 28 has allocated class L to lubricants. Part 0 of this standard details the subdivision of class L into families of products, to each of which a code letter is allocated. This Part provides a detailed classification within family F of class L. Further Parts of the International Standard will provide a detailed classification within other families of class L and will be published as further Parts of this standard.

A classification of machine tool lubricants has been separately published as BS 5063 “*Classification of rationalized range of lubricants for machine tool applications*” and covers grades drawn from ISO 3498:1979 “*Lubricants for machine tools — Classification*”, but does not include all the grades in ISO 3498.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Wherever the words “part of ISO 6743” appear, referring to this standard, they should be read as “Part of BS 6413”.

Cross-references

International Standard	Corresponding British Standard
ISO 3448:1975	BS 4231:1982 <i>Classification for viscosity grades of industrial liquid lubricants</i> (Identical)
ISO 6743-0:1981	BS 6413 <i>Lubricants, industrial oils and related products (class L)</i> Part 0:1983 <i>Classification (general)</i> (Identical)

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope and field of application

This part of ISO 6743 establishes the detailed classification of family F (Spindle bearings, bearings and associated clutches) which belongs to the class L (Lubricants, industrial oils and related products).

It should be read in conjunction with ISO 6743-0.

2 Reference

ISO 3448, *Industrial liquid lubricants — ISO viscosity classification*.

3 Explanation of symbols used

3.1 This detailed classification of family F has been established by defining the categories of products required for the main applications of this family and at the final point for subdivision by referring to composition of corresponding products.

3.2 Each category is designated by a symbol consisting of a group of letters, which together constitute a code.

NOTE The first letter of the code (F) identifies the family of the product considered but the second letter taken separately has no significance of its own.

The designation of each category can be supplemented by the addition of viscosity grades according to ISO 3448.

3.3 In this classification system, products are designated in a uniform manner. For example, a particular product may be designated in complete form, i.e. ISO-L-FD 68, or in an abbreviated form, i.e. L-FD 68, the number indicating the viscosity grade according to ISO 3448.

Classification of lubricants, industrial oils and related products (class L) — Family F (Spindle bearings, bearings and associated clutches)

Code letter	General application	Particular application	More specific application	Composition and special properties	Symbol ISO-L	Typical applications	Remarks
F	Spindle bearings, bearings and associated clutches		Spindle bearings, bearings and associated clutches	Refined mineral oils with improved properties, for example anti-corrosion and anti-oxidation, which may be obtained by additives	FC	Pressure, bath and oil mist (aerosol) lubrication of plain or rolling bearings and associated clutches	Where clutches are involved anti-wear or EP additives should be avoided because of the risk of corrosion
			Spindle bearings, bearings	Refined mineral oils with improved properties, for example anti-corrosion, anti-oxidation, anti-wear, which may be obtained by additives	FD	Pressure, bath and oil mist (aerosol) lubrication of plain or rolling bearings	

Publications referred to

See national foreword.

**BS 6413-2:
1983
ISO 6743-2:
1981**

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