

# INTERNATIONAL STANDARD

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

### Part 13: Family G (Slideways)

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*Lubrifiants, huiles industrielles et produits connexes (classe L) — Classification —*

*Partie 13: Famille G (Glissières)*

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Reference number  
ISO 6743-13 : 1989 (E)

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6743-13 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

ISO 6743 consists of the following parts, under the general title *Lubricants, industrial oils and related products (class L)* — Classification:

- Part 0: General
- Part 1: Family A (Total loss systems)
- Part 2: Family F (Spindle bearings, bearings and associated clutches)
- Part 3A: Family D (Compressors)
- Part 3B: Family D (Gas and refrigeration compressors)
- Part 4: Family H (Hydraulic systems)
- Part 5: Family T (Turbines)
- Part 6: Family C (Gears)
- Part 7: Family M (Metalworking)
- Part 8: Family R (Temporary protection against corrosion)
- Part 9: Family X (Greases)
- Part 10: Family Y (Miscellaneous)
- Part 11: Family P (Pneumatic tools)
- Part 12: Family Q (Heat transfer fluids)
- Part 13: Family G (Slideways)

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

## Part 13 : Family G (Slideways)

### 1 Scope

This part of ISO 6743 establishes the detailed classification of family G (lubricants for slideways). All the lubricants listed in this classification belong to class L (Lubricants, industrial oils and related products).

This part of ISO 6743 should be read in conjunction with ISO 6743-0.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6743. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 6743 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3448 : 1975, *Industrial liquid lubricants — ISO viscosity classification*.

ISO 6743-0 : 1981, *Lubricants, industrial oils and related products (class L) — Classification — Part 0: General*.

### 3 Explanation of symbols used

**3.1** The detailed classification of family G has been established by defining the category of product required for the main applications of this family.

**3.2** This category is designated by a code consisting of the prefix ISO, a symbol designating the class (L) and a symbol designating the family (G), i.e. ISO-L-G.

The designation can be supplemented by a number denoting the viscosity grade of the lubricant in accordance with ISO 3448.

**3.3** In the present classification system, products are designated in a uniform manner. For example, a particular product may be designated in complete form, i.e. ISO-L-G 150, or in an abbreviated form, i.e. L-G 150.

### 4 Detailed classification

The detailed classification is shown in table 1.

Table 1 — Classification of lubricants for slideways

Code letter	General application	Particular application	More specific application	Product type and performance requirements	Symbol ISO-L	Typical application	Remarks
G	Slideways	Lubrication		Refined mineral oils with improved extreme pressure, anti-corrosion, lubricity and tackiness properties to prevent stick-slip	G	Lubrication of slideways and plain bearings in machine tools	G type oils for slideways may be substituted by HG type oils <sup>1)</sup> of the same viscosity grade, provided the equipment manufacturers' requirements are met

<sup>1)</sup> See ISO 6743-4 : 1982, *Lubricants, industrial oils and related products (class L) — Classification — Part 4: Family H (Hydraulic systems)*.

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