

# INTERNATIONAL STANDARD

# ISO 6743-10

First edition  
1989-07-01

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

**Part 10 :**  
Family Y (Miscellaneous)

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*Lubrifiants, huiles industrielles et produits connexes (classe L) — Classification —*  
*Partie 10 : Famille Y (Autres applications)*

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Reference number  
ISO 6743-10 : 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.

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 6743-10 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

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

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- 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 O (Heat transfer fluids)
- Part 13: Family G (Slideways)

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International Organization for Standardization  
Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

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

## Part 10 : Family Y (Miscellaneous)

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### 1 Scope

This part of ISO 6743 establishes the detailed classification of lubricants used for specific applications not already described in the other parts of ISO 6743. These specific applications, which affect relatively small quantities of products, have been gathered into family Y (Miscellaneous).

All the lubricants listed 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 Y has been established by defining the categories of products required for the main applications of this family.

**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 category (Y) identifies the product family, i.e. miscellaneous lubricants. The following letters taken separately have no significance of their own.

The designation of each category can be supplemented by the addition of viscosity grades according to 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-YEB, or in an abbreviated form, i.e. L-YEB.

### 4 Detailed classification

The detailed classification is shown in table 1.

Table 1 — Classification of “miscellaneous” lubricants

Code letter	General application	Particular application	More specific application	Composition and special properties	Symbol ISO-L	Typical application
Y	Miscellaneous	Processing	Benzene and naphthalene removal from coal gas		YA	Wash oil in gasworks and coke oven plants
			Batching of fibres		YB	Impregnation of fibres of cotton, flax, hemp, jute, sisal, etc., for softening prior to carding and spinning for the manufacture of bags, cloth, string, etc.
			Caking prevention		YC	Coating of granules fertilizer
			Dust suppression		YD	Coating of cement granules; spraying of coal and coke stocks; soil stabilization
			Extending rubber and plasticizing plastics	Aromatic extracts	YFA	
				Refined mineral oil, relatively naphthenic	YEB	
				Refined mineral oil, relatively paraffinic	YEC	
				Highly refined technical white oil	YED	Other uses (e.g. non-direct food contact)
					YEE	Polystyrene and rubber for direct food contact and for medical equipment
			Air filters for air-conditioning systems		YF	
			Impregnation		YG	Carrier oil for wood preservation compositions
			Cleaning and household		YH	Ingredient of furniture polishes, floor cleaning compositions, etc.
			Conditioning of leather		YL	Ingredient of waterproofing compounds, etc.
			Plant spraying		YM	Carrier oil for pesticides, insecticides, etc.
			Printing inks		YPA	Heavy inks used for absorption type printing
					YPB	Light oils used in heat-set, evaporative drying or radiation-set inks
			Crack detection	Highly refined non-fluorescent mineral oil	YR	Carrier oil
			Foam suppression		YS	Foam suppression during sugar manufacture or sewage purification
			Cosmetics	Highly refined white oil	YT	Ingredient of cosmetic and toilet preparations
			Pharmaceuticals	Highly refined medical-grade white oil	YW	Smoothing oil for bath liquids
Electrolysis and metal plating		YX	Polishing oil			
Testing	Calibrating and standardizing		YZ	Calibrating and reference oils		

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**UDC 665.765.001.33**

**Descriptors :** petroleum products, lubricants, lubricating oils, classification.

Price based on 2 pages

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