International Standard



6743/0

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ●ORGANISATION INTERNATIONALE DE NORMALISATION

Lubricants, industrial oils and related products (class L) — Classification — Part 0 : General

Lubrifiants, huiles industrielles et produits connexes (classe L) — Classification — Partie 0 : Généralités

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

International Standard ISO 6743/0 was developed by Technical Committee VIEW ISO/TC 28, Petroleum products and lubricants, and was circulated to the member bodies in August 1980.

It has been approved by the member bodies of the following countries: 1981

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Germany, F. R. fdb83767cPeruiso-6743-0-1981 Australia Poland Austria Hungary Romania Belgium India Spain Brazil Iran Sweden Bulgaria Israel Switzerland Canada Italy China Japan Turkey United Kingdom Czechoslovakia Mexico **USSR** Egypt, Arab Rep. of Netherlands Venezuela France Norway

No member body expressed disapproval of the document.

Lubricants, industrial oils and related products (class L) — Classification — Part 0 : General

1 Scope and field of application

This part of ISO 6743 establishes the general classification system which applies to lubricants, industrial oils and related products, designated by the prefix letter "L".

Within this class L, 18 families of products are defined according to application in order to cover, as far as possible, all the applications for which lubricants, industrial oils and related products are used.

The detailed classification of each family will be given in sub- (1) sequent parts of ISO 6743 as the need arises.

ISO 6743-0:1
The classification concerns only new aproducts h.ai/catalog/standards/sfdb83767c6b9/iso-6/

2 Reference

ISO 3448, Industrial liquid lubricants — ISO viscosity classification.

B Explanation of symbols

- **3.1** The detailed classification of a family is established by defining the categories of products which are required for the main applications of the family. Each detailed classification is presented in a standard format applicable to all the families of class L for which a detailed classification is desired.
- **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 this code identifies the family of the product considered, but any following letters taken separately have no significance of their own.

The designation of each product can be supplemented by the addition of viscosity grades according to ISO 3448 or NLGI¹⁾ grades for greases.

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-AN 32, or in an abbreviated form, i.e. L-AN 32, the number indicating the viscosity grade according to ISO 3448.

¹⁾ NLGI: National Lubricating Grease Institute. This Institute (USA) has classified greases according to their consistency as measured under prescribed conditions as the penetration level of a standard cone (this penetration test method is described in ISO 2137). This classification is as follows:

NLGI class	Worked penetration range (60 double strokes)	
000	445 to 475	
00	400 to 430	
0	355 to 385	
1	310 to 340	
2	265 to 295	
3	220 to 250	
4	175 to 205	
5	130 to 160	
6	85 to 115	

Classification of lubricants, industrial oils and related products — Subdivision in families according to application

Code letter	Application	Reference to the part giving detailed classification
Α	Total loss systems	Part 1 ¹⁾
В	Mould release	
С	Gears	
D	Compressors (including refrigeration and vacuum pumps)	Part 3 ¹⁾
E	Internal combustion engine	
F	Spindle bearings, bearings and associated clutches	Part 2 ¹⁾
G	Slideways	
н	Hydraulic systems	Part 4 ¹⁾
М	Metal working	·
N	Electrical insulation	
Р	Pneumatic tools	
Q	Heat transfer	
R	Temporary protection against corrosion	
Т	Turbines	
U	Heat treatment	
×	Applications requiring grease	DDEVIEW
Y	Other applications ADARD	FREVIEW
Z	Steam cylinders (standards i	teh.ai)

¹⁾ In preparation.

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