



SLOVENSKI STANDARD
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**Maziva, industrijska olja in sorodni proizvodi (skupina L) - Klasifikacija - 5. del:
Podskupina T (turbine)**

Lubricants, industrial oils and related products (class L) - Classification - Part 5: Family T
(Turbines)

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**Lubricants, industrial oils and related
products (class L) — Classification —
Part 5:
Family T (Turbines)**

*Lubrifiants, huiles industrielles et produits connexes (classe L) —
Classification —
Partie 5: Famille T (Turbines)*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6743-5 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*, Subcommittee SC 4, *Classifications and specifications*.

This second edition cancels and replaces the first edition (ISO 6743-5:1988), Table 1 of which has been technically revised.

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

- Part 1: Family A (*Total loss systems*)
- Part 2: Family F (*Spindle bearings, bearings and associated clutches*)
- Part 3: Family D (*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*)

- *Part 14: Family U (Heat treatment)*
- *Part 15: Family E (Internal combustion engine oils)*
- *Part 99: General*

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Introduction

The recent evolution in the electricity production area, with the use of more potent gas turbines and single shaft combined cycle gas turbines has made necessary the update of the classification of fluids for turbines. In addition, regulations in some countries are requiring the use of environmentally acceptable lubricants for the lubrication of hydro-turbines.

The new classification includes

- a) new types of gas turbine oils, including synthetic products;
- b) new types of oils for single-shaft combined-cycle gas turbines (i.e. turbines where the same lubricant lubricates both the gas and the steam turbine);
- c) new types of synthetic oils for aircraft turbines with land application;
- d) detailed classification for hydro-turbines, including environmentally acceptable products.

This completes the classification described in ISO 6743-5:1988 and fits the industrial needs.

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

Part 5: Family T (Turbines)

1 Scope

This part of ISO 6743 establishes the detailed classification of fluids of family T (Turbines) that belong to class L (Lubricants, industrial oils and related products).

It is intended to be read in conjunction with ISO 6743-99^[2].

This classification excludes the products intended for aircraft turbines. However, some aircraft turbines can find land application for power generation. For the lubrication of such turbines, it is recommended that the manufacturer's recommendation be followed. Depending on the service, either TGA, TGB, TGCH, TGCE or more specific aircraft-turbine lubricants can be used.

This classification also excludes the products intended for the lubrication of wind turbines. The gear lubricants used in wind turbines are described in ISO 6743-6^[1] and specified in ISO 12925-1^[3].

2 Explanation of symbols used

2.1 The detailed classification of family T has been established by defining the categories of products required for the various applications of this family.

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

The first letter of the code (T) identifies the family of the product considered, but any following letters taken separately have no significance of their own.

The designation of each category can be supplemented by a number denoting the viscosity grade of the lubricant in accordance with ISO 3448:1992^[4].

2.3 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-TSA 46, or in an abbreviated form, i.e. L-TSA 46.

2.4 In this classification system, turbine lubricants are classified separately. It is not uncommon that some turbine lubricants may be used in different turbine types. Some examples are given hereafter – these examples are not restrictive.

- a) The same lubricant may cover L-TSA, L-TGA and L-THA categories.
- b) The same lubricant may cover L-TSE and L-THE categories.
- c) The same lubricant may cover L-TGB and L-TGSB categories.
- d) The same lubricant may cover L-TGF and L-TGSE categories.
- e) The same lubricant may cover L-TSD, L-TGD and L-TCD categories.