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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 7631.12-2014

Replacing GB/T 7631.12-1994

**Lubricants, industrial oils and related products (class L) --
Classification -- Part 12: Family Q (Heat transfer fluids)**

润滑剂、工业用油和有关产品（L类）的分类 第12部分：Q组(有机热载体)

(English Translation)

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Foreword

GB/T 7631 "Lubricants, industrial oils and related products (class L) Classification" is currently divided into the following sections.

--- Part 1. General packet;

--- Part 2. H (Hydraulic systems);

Part --- Chapter 4. F group (spindle, bearings and associated clutches);

Part --- Article 5. M (Metalworking);

--- Part 6. R (Temporary protection against corrosion);

Part --- Article 7. C group (gear);

--- Part 8. X group (grease);

Part --- Article 9. D (Compressors);

--- Part 10. T group (turbine);

Part --- Article 11. G group (rail);

--- Part 12. Q group (organic heat);

Part --- Article 13. A group (system-wide loss);

--- Part 14. U group (heat treatment);

--- Part 15. N group (insulating liquid);

Part --- Article 16. P (Pneumatic tools);

Part --- Article 17. E (Internal combustion engine oils).

This section GB/T Part of 127,631.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 7631.12-1994 "Lubricants and related products (L class) classification - Part 12. Q group (thermal conductivity Liquid)", "The main technical differences compared with the GB/T 7631.12-1994 are as follows.

--- Standard name was changed to "Lubricants, industrial oils and related products (L class) classification - Part 12. Q group (organic heat carrier body)"

--- Products named by the movement to divide the product viscosity grade modified to allow the use of the highest temperature or maximum allowable temperature and the lowest temperature divided Grades.

--- L-QE products "special applications" temperature range from "maximum allowable operating temperature" $> -30\text{ }^{\circ}\text{C}$ and $-60\text{ }^{\circ}\text{C}$ and $\leq 320\text{ }^{\circ}\text{C}$, while increasing footnote a "production at the lowest temperature Product kinematic viscosity should be less than $12\text{mm}^2/\text{s}$." More specific applications, "the conditions of use by the" cooling system "to" cooling system EC or cooling/heating system. " this part of ISO 6743-12. 1989 "lubricants, industrial lubricants related products (L) class - Classification - Part 12. Q group (heat transfer Catheter) "non-equivalent degree of consistency.

This part of the National Standardization Technical Committee on products and lubricant oil (SAC/TC280) proposed.

This part of the National Standardization Technical Committee on Petroleum Products Lubricants oil and lubricants and fuels Technical Committee (SAC/TC280 /SC1) centralized.

This section drafted by. China Petroleum & Chemical Corporation Research Institute of Petroleum.

1 Scope

GB/T 7631 provisions of this part of the group Q (Heat Transfer Fluid) a detailed breakdown. All products included in this category belong to class L (Run Slip agents, industrial oils and related products).

This section should be consistent with GB/T 7631.1 linked understand.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 265 Petroleum products - Determination of kinematic viscosity and calculation of dynamic viscosity
GB/T 7631.1 Lubricants, industrial oils and related products (L class) classification - Part 1. Generic Packet
GB/T 23800 Determination of thermal stability
Heat Transfer Fluid GB 23971-2009 Heat Transfer Fluid

3 Using symbols

Detailed 3.1 Q group is based mainly product variety of applications in this group required to determine.

3.2

Each product code by a symbol consisting of two letters to represent.

Note: The first letter of each species (Q) represents the product categories, namely organic heat carrier. When no meaning behind the letters alone. Each species is named it may be accompanied by one or a set of numbers, the specific meaning of the provisions in 3.3.

3.3

In this classification system, named after a variety of products in a uniform manner.

A specific QA, QB, QC and QD products available in complete form or short form name, for example, ISO -L-QC320 or L-QC320. In both forms of the above, the numbers represent by GB/T 23800 detector determines the maximum allowable temperature.

A specific QE products available full form or short form name, for example, ISO -L-QE300/-40 or L-QE300/-40. above Surface in two forms, the first part of the representative of a set of numbers by the GB/T 23800 detector determines the maximum allowable temperature (see GB 23971-2009 of 3.8), on behalf of a part of a set of numbers after GB/T 265 is detected to determine the lowest temperature.

4 Detailed

A detailed breakdown in Table 1.