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

Part 8 : Family R (Temporary protection against corrosion)

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

Partie 8: Famille R (Protection temporaire contre la corrosion)

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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.

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 6743-8 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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

Part 8 : Family R (Temporary protection against corrosion)

1 Scope and field of application

This part of ISO 6743 establishes the detailed classification of family R (Temporary protection against corrosion), which belongs to class L (Lubricants, industrial oils and related products).

It should be read in conjunction with ISO 6743-0.

This classification applies to categories of products which are assigned to ensure temporary protection against corrosion. It includes only those products the main function of which is to ensure temporary protection, the word "temporary" being relevant not to time-limit product efficiency but to the capacity for removal of the product after a certain time.

This classification excludes products that are applied for other purposes but also ensure temporary protection. Vapour-phase inhibitors and other chemical products that differ from petroleum products in behaviour are also excluded.

This classification applies to protection of both bare metals and coated metals (painted metallic surfaces, car bodies, etc.). In addition, corrosion is regarded as deterioration of surfaces of all metals, not only ferrous.

2 References

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

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

3 Explanation of symbols used

3.1 This detailed classification of family R has been established by defining the categories of products required for the main applications of temporary protection against corrosion, in relation with duty conditions (see the annex) and nature of the protecting film.

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 (R) identifies the family of the product considered but any following letters taken separately have no significance on their own.

The designation of each category can be supplemented by the addition of viscosity grades according to ISO 3448.

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-RE, or in an abbreviated form, i.e. : L-RE.

4 Detailed classification of products for temporary protection against corrosion

Code letter	General application	Particular application	More specific application	Special properties and nature of the film	Symbol ISO-L	Typical application	Remarks	
R	Temporary protection against corrosion	Main use : Protection of bare metals	Light duty conditions (See the annex.)	Water-displacing fluid which leaves a thin protecting film	RA	Machined and ground parts between operations	Removed by suitable solvent or water-based detergent (removal may not be necessary)	
				Water-based fluid which leaves an oily thin film	RB			
				RB products having water-dispacing properties	RBB			
				Undiluted fluid	RC			
			RC products having water-displacing properties	RCC				
			More severe duty conditions (See the annex.)	Undiluted fluid	RD	Steel sheets, plate metal parts Steel tubes, bars and wires Cast parts, machined parts interoperations or for CKD ¹⁾ Nuts, bolts screws Aluminium sheets		Removed by suitable solvent and/or water-based detergent
				RD products having water-displacing properties	RDD			
				Solvent-based fluid which leaves an oily or greasy film	RE			
				RE products having water-displacing properties	REE			
				Solvent-based fluid which leaves a waxy to dry film	RF			
		RF products having water-displacing properties		RFF				
		Solvent-based fluid which leaves a bituminous film		RG	Heavy-duty machinery Stub axle		Removed by suitable solvent and mechanical effort	
		Water-based fluid which leaves waxy to greasy film		RH	Tubes wire and mechanical parts		Removed by suitable solvent or water-based detergent	
		Solvent- or water-based fluid which leaves a peelable film	RP	Aluminium sheets Stainless steel sheets	Removed by peeling or by using a suitable solvent or water-based medium			
		Plastic compound applied when melted	RT	Machined and ground parts Small fragile tools	Removed by peeling			
		Soft or thick grease applied either hot or cold	RK	Bearings Machined parts	Removed by suitable solvent or simply wiped off			
Main use : Protection of coated metals	All conditions	Undiluted fluid	RL	Coated steel sheets except tin-plated Zinc-coated sheets Assembled parts : engines, weapons	Removed by peeling or by using suitable solvent or water-based medium			
		Solvent- and/or water-based fluid which leaves a waxy to dry film	RM			Painted surfaces Car bodies Coated steel sheets		

1) CKD = Completely knocked down.

Annex

Definition of terms used in determining specific applications

(This annex forms an integral part of the Standard.)

A.1 light-duty conditions

- (1) Storage, for periods of less than 4 months, of parts not exposed either
 - to humidity due to repeated condensation (stores or rooms subject to variable temperatures), or
 - to particularly corrosive conditions (acidic or alkaline vapours, smoke, etc.).
- (2) Short-term movement of parts in closed and dry conditions (for example, air-tight packaging, air-tight containers or enclosed vehicles).

A.2 more severe duty conditions: All cases other than those covered by *light-duty conditions* (A.1).

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