

# **SOUTH AFRICAN NATIONAL STANDARD**

## **Lubricants for use in the food industry**

**WARNING**  
This document references other  
documents normatively.

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1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001  
Tel: +27 12 428 7911 Fax: +27 12 344 1568  
[www.sabs.co.za](http://www.sabs.co.za)  
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**SANS 1829:2019**  
Edition 2.1

<b>Table of changes</b>		
<b>Change No.</b>	<b>Date</b>	<b>Scope</b>
Amdt 1	2019	Amended to update the clause on suitability for purpose, to delete the subclause on storage stability, and to update the annex on notes to purchasers.

## **Foreword**

This South African standard was prepared by National Committee SABS/TC 028/SC 02, *Petroleum products, biofuels and lubricants – Lubricants*, in accordance with procedures of the South African Bureau of Standards, in compliance with annex 3 of the WTO/TBT agreement.

This document was approved for publication in May 2019.

This document supersedes SANS 1829:2005 (edition 2).

A vertical line in the margin shows where the text has been technically modified by amendment No. 1.

Annexes A and B form an integral part of this document. Annex C is for information only.

**Compliance with this document cannot confer immunity from legal obligations.**

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**SANS 1829:2019**  
Edition 2.1

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## **Lubricants for use in the food industry**

### **1 Scope**

This standard specifies general requirements for lubricants intended for use in the food industry. The standard sets minimum requirements for the safety of lubricants that are intended for use in process plant and equipment that might come into contact with food products, and also sets the minimum requirements for the quality management system to be used during the manufacture of the lubricants.

NOTE The standard does **not** specify **performance** requirements for the lubricants. The user is urged to verify, by conducting suitable tests either in the laboratory or in the food processing plant, that the lubricants are suitable for the proposed application. Alternatively, proven compliance with an appropriate national standard should be requested.

### **2 Normative reference**

The following standard contains provisions which, through reference in this text, constitute provisions of this standard. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this standard are encouraged to take steps to ensure the use of the most recent edition of the standard indicated below. Information on currently valid national and international standards can be obtained from the South African Bureau of Standards.

SANS 11014, *Safety data sheet for chemical products – Content and order of sections*.

### **3 Definitions**

For the purposes of this standard, the following definitions apply:

#### **3.1**

##### **acceptable**

acceptable to the authority administering this standard or to the parties concluding the contract, as relevant

#### **3.2**

##### **batch**

the material from a single mix (blend) or, in the case of a continuous production process, the material from a single day's production

## **4 Requirements**

### **4.1 Raw materials**

When assessed in accordance with 5.1, acceptable evidence shall be provided to show that raw materials used in the formulation are suitable for use in a food processing plant. Products shall not contain ingredients that are recognized as being potentially hazardous or toxic when the products are used correctly and in accordance with the manufacturer's recommendations.

### **4.2 Food contact and residues**

When used correctly and in accordance with manufacturer's recommendations or when it accidentally comes into contact with food, the lubricant shall leave no residue in concentrations that might be harmful to human beings, and any incidental contact with foodstuff shall not affect the taste, smell or colour of the foodstuff.

### **4.3 Suitability for purpose**

When used in accordance with the manufacturer's recommendations, the lubricant shall perform the duty for which it is claimed to be effective (see annex A). **Amdt 1**

**NOTE** It is recommended that the users assess the lubricant's suitability for purpose in the food processing environment. Where compliance with requirements such as those in SANS 10330 (HACCP) or SANS 10049 is necessary, objective evidence of efficacy might be required to enable the food processor to claim such compliance.

### **4.4 Quality system requirements**

**4.4.1** When assessed in accordance with 5.2, the quality system of a manufacturer of lubricants for use in the food industry shall comply with the requirements of 4.4.1 to 4.4.11 (inclusive).

**NOTE** A quality system that complies with provisions of SANS 9001 (see annex C) is deemed to comply with such requirements.

**4.4.2** Responsibility for the quality system shall be delegated to an officer who has sufficient authority, and is sufficiently qualified, to ensure compliance with the relevant requirements of this standard.

**4.4.3** The responsibilities of all persons who have direct or indirect responsibility for quality shall be so defined and documented as to ensure that there is no overlap of functions or responsibilities.

**4.4.4** Quality system documentation, and the amendment and revision of such documentation (including formulations, test methods and product standards), shall be written and authorized only by duly designated officers who have written authority to perform these functions.

**4.4.5** A documented quality system shall exist and be implemented to ensure that only lubricants that comply with the relevant requirements of this standard are delivered to the food industry. Such documentation shall include, but not be limited to

- a) procedures for the manufacture of the respective products,
- b) standards for all the raw materials used,
- c) standards for the finished products,

- d) standards for the testing of raw materials, packaging, work in progress and finished products,
- e) standards for packaging, labelling and storage of the finished products, and
- f) systems to ensure that personnel involved in activities that affect the manufacture and quality of the lubricants have available only current and suitably authorized documented procedures and standards, and that such documentation can be recalled and updated when necessary.

**4.4.6** Systems shall exist and be implemented to ensure that only raw materials and packaging that comply with the relevant requirements of this standard are used in the manufacture of food grade lubricants.

**4.4.7** The manufacturer shall implement a system of product identification that ensures that a product in its original packaging can be traced back to the relevant records of manufacture and sources of raw materials.

**4.4.8** Products shall be manufactured using appropriate equipment and in accordance with documented manufacturing procedures (see 4.4.5), by trained employees. Process control procedures shall be such as to ensure a consistent quality of the end product.

**4.4.9** The formulations of the lubricant (see 4.4.4) shall be such as to be acceptable, together with sufficient safety data that covers both raw materials and the finished product, to ensure the safety of that product when used in accordance with the manufacturer's recommendations. Material safety data sheets shall form an integral part of such safety data.

**4.4.10** Testing equipment shall be calibrated periodically to ensure its reliability and accuracy. Records of calibration shall be kept. The maximum period between successive calibrations shall not exceed one year.

**4.4.11** Systems shall exist and be implemented to ensure that only lubricants that comply with the relevant quality standard(s) are dispatched to the end user.

**4.5** Deleted by amendment No. 1.

## **5 Assessment of safety of raw materials**

**5.1** The manufacturer of the lubricants shall provide, as required, acceptable evidence to establish

- a) the safety of all raw materials used in the formulation of the products,
- b) the freedom of the products from contaminants or trace components in amounts that might prove harmful to human beings, and
- c) that the products do not leave toxic residues on food or equipment, when the lubricants are used correctly in accordance with the manufacturer's recommendations.

**5.2** Evidence to this effect shall include one or more of the following:

- a) certification by an acceptable recognized authority;
- b) material safety data sheets in accordance with SANS 11014; and
- c) certificates of analysis.

## **6 Packing, marking and labelling**

### **6.1 Packing**

Products shall be packed in such a way that their safe and secure transportation and handling is ensured.

### **6.2 Marking and labelling**

In addition to such markings and labels that are required in terms of any legislation, lubricants shall comply with the following minimum labelling requirements:

- a) an indication that the product is a lubricant;
- b) an indication of the purpose for which the product will be suitable;
- c) an indication that the product is suitable for use in food processing establishments;
- d) hazard warnings, where relevant;
- e) the shelf life or expiry date;
- f) the manufacturer's name or trademark, or both; and
- g) the batch identification.

**Annex A**  
(normative)

**Notes to purchasers**

**A.1** The following requirements shall be specified in tender invitations and in each order or contract:

- a) the purpose for which the lubricant is required (see 4.3); and
- b) materials with which the lubricant might come in contact, and with which it shall be compatible.

NOTE The above requirements can be specified by reference to a manufacturer's data sheet.

**A.2** Deleted by amendment No. 1.

**Annex B**  
(normative)

**Sampling and compliance with this standard**

**B.1 Sampling**

**B.1.1 General**

The following sampling procedure shall be applied in determining whether a lot, submitted for inspection and testing, complies with the relevant requirements of this standard. The sample so drawn shall be deemed to represent the lot.

**B.1.2 Definitions**

**B.1.2.1**  
**defective**

a lubricant that fails to comply in one or more respects with the requirements of this standard

**B.1.2.2**  
**lot**

that quantity of containers of lubricant bearing the same batch identification, from one manufacturer, and submitted at any one time for inspection and testing

### **B.1.3 Sample for inspection**

From the lot, take at random the number of containers shown in column 2 of table B.1, relevant to the appropriate lot size given in column 1. Inspect the samples for compliance with the requirements of clause 6.

**Table B.1 — Samples for inspection**

1	2
Lot size, containers	Sample size, containers
Less than 10	2
11 – 200	4
More than 200	6

### **B.1.4 Sample for testing**

After inspection of the samples taken in accordance with B.1.3, take at random, half the number of containers and from each of the remaining containers take the smallest of

- a) the contents of the container, or
- b) 0,25 L in the case of liquids, or
- c) 0,25 kg in the case of greases.

Combine them by mixing them thoroughly to make up a composite sample for testing.

## **B.2 Compliance with this standard**

The lot shall be deemed to comply with the requirements of this standard if

- a) after inspection of the containers and testing of the samples taken in accordance with B.1.3 and B.1.4, no defective is found,
- b) the manufacturer provides acceptable evidence as to the safety of all materials used in the manufacture, and the safety of the final product,
- c) the manufacturer provides acceptable evidence as to the suitability for purpose of the lubricant, in accordance with 4.3, and
- d) the manufacturer complies with the quality system requirements of this standard, in accordance with 4.4.

**Annex C**  
(informative)

**Quality verification of lubricants for use in the food industry**

When a purchaser requires ongoing verification of the quality of lubricants for use in the food industry, it is suggested that, instead of concentrating solely on evaluation of the final product, he also direct his attention to the manufacturer's quality system. In this connection it should be noted that SANS 9001 cover the provisions of an integrated quality system.

**Bibliography**

SANS 9001/ISO 9001, *Quality management systems – Requirements*.

SANS 10049, *Food safety management – Requirements for prerequisite programmes (PRPs)*.

SANS 10330, *Requirements for a Hazard Analysis and Critical Control Point (HACCP) system*.

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