# INTERNATIONAL STANDARD 2176

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

# Petroleum products — Lubricating grease — Determination of dropping point

First edition — 1972-06-15



UDC 662.75 : 536.421.3

Ref. No. ISO 2176-1972 (E)

**Descriptors** : greases, lubricants, melting points, petroleum products.

Price based on 2 pages

## FOREWORD

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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 2176 was drawn up by Technical Committee ISO/TC 28, *Petroleum products.*

It was approved in July 1971 by the Member Bodies of the following countries:

| | | |
|---|---|---|
| Australia | India | Spain |
| Austria | Ireland | Sweden |
| Belgium | Italy | Switzerland |
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| Chile | New Zealand | United Kingdom |
| Czechoslovakia | Poland | U.S.A. |
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No Member Body expressed disapproval of the document.

# Petroleum products — Lubricating grease — Determination of dropping point

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard describes a method for the determination of the dropping point of lubricating grease.

## 2 DEFINITION

**dropping point :** The temperature at which a grease acquires a certain fluidity in the course of a test conducted under standardized conditions.

The dropping point should be considered to have only limited bearing upon service performance.

## 3 APPARATUS

**3.1 Grease cup** in chromium-plated brass, conforming to the dimensions shown in Figure 1.

Dimensions in millimetres

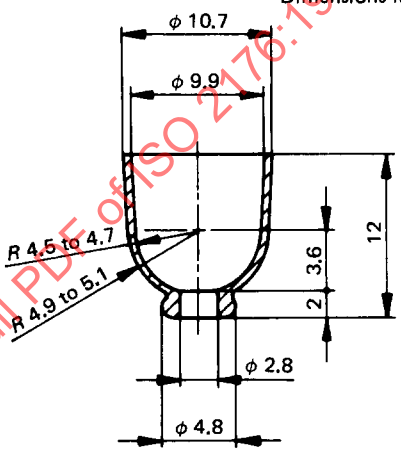


FIGURE 1 — **Cup**

**3.2 Test tube**, of heat-resistant borosilicate glass, with rim, conforming to the dimensions shown in Figure 2. The tube is provided with three indentations on the circumference to support the grease cup at about the point shown in Figure 2.

**3.3 Thermometers**, partial immersion type, conforming to the following specification:

| | |
|---|---|
| Range | − 5 to + 300 °C |
| Immersion | 76 mm |
| Graduation | 1 °C |
| Longer lines at each | 5 °C |
| Figured at each | 10 °C |
| Scale error not to exceed | 1 °C |
| Overall length | 390 ± 5 mm |
| Stem diameter | 6.5 ± 0.5 mm |
| Bulb length | 10 to 15 mm |
| Bulb diameter | 5.5 ± 0.5 mm |
| Distance from bottom of bulb to 0 °C line | 100 to 110 mm |
| Distance from bottom of bulb to 300 °C line | 329 to 358 mm |

Dimensions in millimetres

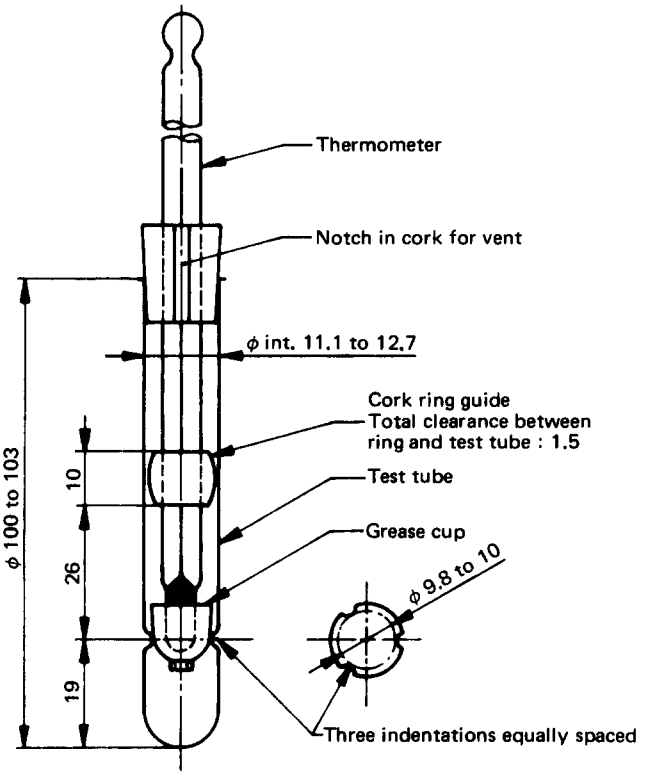


FIGURE 2 — **Assembled apparatus**