

## Roll Stability of Lubricating Grease

ASTM D 1831, ASTM D 7342, MIL-G-10924

**Product group(s):** Grease, Wax

**User group(s):** Ball & Roller Bearings, Grease

**Scope:** This test method covers determination of changes in the consistency, as measured by cone penetration, of lubricating greases when worked in the roll stability test apparatus.

The Roll Stability Tester is a four place test unit widely used for the Shear Stability tests on lubricating greases. The testing apparatus not only conforms to ASTM D 1831 but exceeds the listed specifications regarding test time and temperature.

Tests with this Roll Tester can be conducted at temperatures up to +200 °C and for periods up to 50 hours and more.

During the test period the exterior of the test apparatus is safe to touch at all times even at highest temperature setting.

This is due to the use of high-quality thermal insulation and cooling design. With its extraordinary temperature range and excellent features the apparatus represents a unique alternative for tests of high temperature lubricating greases.

- **Designed for long test runs at temperatures up to +200 °C**
- **Digital timer with bright and easy-to-read two color display**
- **High-accuracy digital temperature controller with Pt-100 probe**
- **Low noise operation <63 dB (A)**
- **Excellent uniform heat distribution provided by aluminum fan and shielded heaters**
- **Various options available to meet different user requirements**



### Roll Stability Test Equipment

More details are mentioned in the "Order Number" section

### Technical Data

<u>Rotation Speed:</u>	165 rev/min
<u>Temperature range:</u>	ambient to +200 °C
<u>Dimensions (WxHxD):</u>	700 x 730 x 690 mm
<u>Weight:</u>	70 kg (without test equipment)

## Main Unit

**17-1600** **Roll Stability Tester, 4-place**  
ASTM D 1831 - ASTM D 7342 - MIL-G-10924

Necessary accessories:

- test cylinder with rollers and gaskets
- wrench for opening and closing of test cylinder

Power supply: 230 V, 50 Hz, 1800 W

**17-1610** **Test Cylinder (nickle-plated steel)**  
with roller (5 kg, steel) and gaskets

**17-1620** **Hook Wrench**  
for opening and closing of test cylinder

## Options & Accessories

<b>17-1700</b>	<b>Adjustable Rotation Speed</b> at the Rotation Stability Tester, speed from 100-200 rpm in steps of 1 rpm through a potentiometer with a scale and a digital display of the rotation speed.
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<b>17-1715</b>	<b>Test Cylinder (stainless steel)</b> with roller and gaskets
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<b>17-1611</b>	<b>Holding Device for opening &amp; closing test cylinders</b>
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## Spare Parts

<b>17-1615</b>	<b>Gaskets for one test cylinder</b>
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## Order Guideline

Minimum equipment:	1x 17-1600, 2-4x 17-1610, 1x 17-1620
Spares (approx. 1 year):	17-1615
Additional requirements:	