

ICS 59.140.35

QB

**LIGHT INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QB/T 2919-2018

**Case and bag - Test method for resistance to fatigue of pull rod
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is a revision of QB/T 2919-2007 "Case and bag - Test method for resistance to fatigue of pull rod".

As compared with QB/T 2919-2007, in addition to the editorial changes, the main technical changes in this standard are as follows.

- DETAIL the "Switching device of pull rod's lock";
- ADD the requirement for the fixed position of "force value sensor";
- CHANGE the "steel ruler or steel tape measure" into "displacement control and recording device";
- MODIFY the "test conditions";
- MODIFY the "pull-in rate";
- DETAIL the "representation of results".

This standard was proposed by the China National Light Industry Council.

This standard shall be under the jurisdiction of the National Leather Industry Standardization Technical Committee (SAC/TC 252).

Main drafting organizations of this standard. Dongguan Hengyu Instrument Co., Ltd., National Leather Products Quality Supervision and Inspection Center

(Guangzhou), Yangyi Testing Technology Co., Ltd., Guangdong Xiangcheng Box Technology Co., Ltd., Fujian Baolande Luggage & Leather Co., Ltd. Guangzhou Institute of Quality Supervision and Inspection, China Leather and Footwear Industry Research Institute.

1 Scope

This standard specifies the principle, device, test method, test report of testing the resistance to fatigue of pull rod of case and bag.

This standard applies to all kinds of pull rods used by case and bag.

2 Principles

At a certain pull-out and press-fitting frequency, through continuous on/off of the pull rod's lock as well as the reciprocating pull-out and press-fitting of the pull rod of the case and bag, to check the reciprocating fatigue performance, structural fastness, switch durability.

3.1 Reciprocating fatigue testing machine for pull rod

The reciprocating fatigue testing machine for pull rod (see Figure 1 for a schematic diagram) shall include the components as specified in 3.1.1 ~ 3.1.8.

3.1.1 Specimen fixing device (lower clamp), which fixes the bottom of the specimen, whose size is adjustable.

3.1.3 Pull rod's movement device, which can reciprocate, whose movement frequency and stroke can be adjusted.

3.1.8 Control device, there is automatic stop function when the pull rod is stuck or fault occurs during the test, meanwhile it has the function of setting and automatically recording the number of pulls.

4 Preparation of specimen

The specimen shall be placed in an environment at a temperature of 16 °C ~

30 °C for not less than 2 h. The specimen shall not be loaded during the period

of storage. The specimen shall be tested at this ambient temperature.

5.1 Fix the specimen on the fixing device of the reciprocating fatigue testing

machine for pull rod. If it is a finished pull rod, fix the lower part of the pull rod directly to the fixing device of the testing machine.

5.2 After pulling the pull rod to the end, use the displacement recording device

to measure the maximum pull-out length of the pull rod, record and set the stroke.

5.5 Select the following number of pull-in (one pull-out plus one press-fitting

forms one pull-in) to perform test. 1000 times, 2000 times, 3000 times, 5000 times, 10000 times, 20000 times, etc., or perform test according to the specified number of pull-in. Take an interval of 5 min for each 1000 times of test.

5.6 At the end of the test, record the number of pull-in as well as the maximum

force value of pull-out and press-fitting.

5.7 Check whether the pull rod is deformed, whether the joint is loosened,

whether the switch of pull rod's lock is normal.

6 Representation of results

The results are expressed by the number of pull-in of pull rod as well as the quality of product after the test.

7 Test report

The test report shall include the following.

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