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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB/T 2941-91

Replacing GB/T 2941-82

**Rubber - Standard temperatures, humidities and times for
the conditioning environmental and testing of test pieces**

橡胶试样环境调节和试验的标准温度、湿度及时间

Issued on: April 25, 1991

Implemented on: April 01, 1992

Issued by: State Bureau of Technical Supervision.

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Rubber - Standard temperatures, humidities and times for the conditioning environmental and testing of test pieces

This standard equivalently adopts the international standard ISO 471-1983 "Rubber - Standard temperatures, humidities and times for the conditioning and testing of test pieces" and ISO 1826-1981 "Rubber, vulcanized - Time-interval between vulcanization and testing - Specification".

1 Subject content and scope of application

This standard specifies the time intervals and standard temperature and humidity, for vulcanization of rubber specimens and products AND conditioning of the test environment.

This standard applies to standard environmental conditioning and time intervals for specimens.

This standard does not cover test and environmental conditioning conditions for special materials.

The environmental conditioning and test conditions, which are required for each standard test method, shall be noted in the standard.

2 Definition

Environmental conditioning - Before testing, the rubber specimen is directly exposed to standard temperature and humidity, for a specified period of time, to improve the repeatability of test results.

3 Laboratory standard temperature and humidity

3.1 Standard temperature:

The standard temperature shall be 23 °C. In subtropical areas, the test can also be conducted, at a temperature of 27 °C; however, it can only be used as a temporary temperature for internal quality control. The temperature for the arbitration qualification test must be 23°C¹⁾.

3.2 Standard humidity:

¹⁾ ISO 471-1983 stipulates that the standard temperature is 23 °C or 27 °C.

testing is 16 h.

5.2 For non-product testing, the maximum time interval between vulcanization and testing is four weeks. Comparative tests shall be performed at the same time intervals.

5.3 For the product testing, where possible, the time interval between testing and vulcanization shall not exceed three months. In other cases, the test shall be carried out within two months from the date of receipt by the purchaser.

6 Conditioning

6.1 When a certain temperature and humidity specified in 3.1 and 3.2 is used, the specimen shall be conditioned, under the standard temperature and humidity conditions for no less than 16 hours, before test.

6.2 When a certain temperature specified in Article 3.1 is used, the specimen shall be conditioned, at the standard temperature for no less than 3 hours, immediately before the test.

Note: The conditioning of the internal quality control specimen temperature shall be no less than 30 min³⁾.

6.3 When a certain temperature specified in Article 3.4 is used, place the specimen at this temperature before the test, to condition it for a long enough time, to balance the specimen with the ambient temperature, OR handle it according to the relevant provisions on the test materials and products.

6.4 During the conditioning of rubber specimens, the entire surface of each specimen shall be exposed to environmental conditioning as much as possible, meanwhile the specimens shall be protected from various stresses and exposure to direct sunlight.

7 Tests

Unless otherwise specified, tests shall be carried out under standard conditions of temperature and humidity, to which the specimens are conditioned.

Note: For the specimens that are conditioned at a certain temperature and humidity specified in Articles 3.1 and 3.2, the test can be carried out, in the environment specified in Article 3.3, provided that changes in temperature and humidity do not affect the test results.

8 Test report

The test report includes the following contents:

³⁾ ISO 471-1983 stipulates that the conditioning time before specimen test is 3 hours.

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