
INTERNATIONAL STANDARD



3402

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

Tobacco and tobacco products — Atmospheres for conditioning and testing

Tabac et produits du tabac — Atmosphères de conditionnement et d'essai

First edition — 1975-07-15

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UDC 663.97 : 620.1.05 : 551.58

Ref. No. ISO 3402-1975 (E)

Descriptors : tobacco, tests, testing conditions, test atmospheres.

Price based on 1 page

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

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 3402 was drawn up by Technical Committee ISO/TC 126, *Tobacco and tobacco products*, and circulated to the Member Bodies in May 1974.

It has been approved by the Member Bodies of the following countries :

Belgium	Italy	Switzerland
Bulgaria	Netherlands	Thailand
Canada	Poland	Turkey
France	Portugal	United Kingdom
Germany	Romania	U.S.S.R.
Hungary	South Africa, Rep. of	Yugoslavia
India	Spain	
Iran	Sweden	

The Member Body of the following country expressed disapproval of the document on technical grounds :

Japan

Tobacco and tobacco products – Atmospheres for conditioning and testing

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies atmospheres for conditioning and testing samples and test pieces of tobacco and tobacco products.

This International Standard is applicable to tests for which a prior conditioning is necessary of tobacco, tobacco products and materials used in the manufacture of tobacco products (for example papers, cigarette filters, etc.). It is not applicable in the case of test methods for which particular conditions are laid down elsewhere.

2 REFERENCE

ISO/R 558, *Conditioning atmosphere, test atmosphere, reference atmosphere – Definitions.*

3 DEFINITIONS

See ISO/R 558.

4 ATMOSPHERES

4.1 Choice of atmospheres

Choose one of the atmospheres laid down in 4.2. In all cases state in the test report the atmosphere selected.

4.2 Conditioning atmospheres

Designation	Temperature	Relative humidity	Atmospheric pressure
	°C	%	mbar
A	22 ± 1	60 ± 1	} 860 to 1 060
B	22 ± 1	66 ± 1	
C	27 ± 1	66 ± 1	

4.3 Test atmosphere

The test atmosphere shall be the same as the conditioning atmosphere chosen. In cases where this is not practical, it shall be as close as possible to the conditioning atmosphere.

5 CONDITIONING

5.1 Duration of conditioning

For information, in current practice a duration of 24 h is generally found to be sufficient for loose cigarettes or filter rods or unreel papers, using an appropriate installation. This conditioning time can be insufficient for certain samples or test pieces, for example packeted cigarettes or cigarettes in bulk; therefore, in all cases, it should be verified that equilibrium has been properly attained.

5.2 Checking of equilibrium

Equilibrium can be considered to be attained either :

a) when the relative variation of the mass of the sample or test pieces is not greater than 0,2 % in 3 h;

or,

b) when the sample or the test pieces, placed in a closed container of volume similar to that of the sample, give rise to a relative humidity in the container equal to that of the atmosphere chosen (A or B or C).