## INTERNATIONAL STANDARD



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

## Tobacco and tobacco products — Expression of analytical test results

Tabac et produits du tabac – Expression des résultats d'analyse

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ISO 3406:1975

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3406-1975

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Descriptors: tobacco, tests, chemical analysis, test results.

#### **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 3406 was drawn up by Technical Committee IFW ISO/TC 126, Tobacco and tobacco products, and circulated to the Member Bodies in May 1974.

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

ISO 3406:1975

Belgium https://atandards.iteh.ai/catalog/sswearch/sist/45acf133-672e-4642-ae8b-

Bulgaria Iran 373d86e0 Switzerland 6-1975

Canada Netherlands Thailand Czechoslovakia Poland Turkey

Egypt, Arab Rep. of Portugal United Kingdom

France Romania U.S.S.R.

Germany South Africa, Rep. of Yugoslavia

Germany South Africa, Rep. of Yugoslavia
Hungary Spain

The Member Bodies of the following countries expressed disapproval of the document on technical grounds:

Australia Japan

### Tobacco and tobacco products — Expression of analytical test results

#### 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies methods for the reporting of results of analytical determinations on tobacco leaf or cut tobacco, excluding waste and offal.

#### 2 REFERENCES

ISO 2817, Tobacco and tobacco products — Determination of silica content.

ISO . . . , Tobacco and tobacco products — Determination of water content. 1 )

#### 3.4 Standard deviation and confidence interval

All results shall be accompanied by a statement of the standard deviation and the confidence interval for the mean

### 4 CALCULATION OF WATER- AND SILICA-FREE MASS

The water-free mass of the sample is given by the formula

iTeh STANDARD PREVIEW  $= M_0 \left(1 - \frac{W}{100}\right)$ 

#### 3 REPORTING

(standards. The water) and silica-free mass of the sample is given by the formula

#### 3.1 Basis of expression of results

The results of tests according to any of the agreed methods 6:1975  $M_{WSF} = M_0 \left(1 - \frac{S}{100}\right) \left(1 - \frac{W}{100}\right)$  or  $M_{WF} \left(1 - \frac{S}{100}\right)$  the sample and, if higher precision is required; of the water/iso-3406-1975 where

#### 3.2 Mode of expression of results

- **3.2.1** In the case of samples where the percentage as calculated is found to be less than 0,01 %, the result shall be reported as milligrams per kilogram (parts per million or a similar basis) to the nearest 1 or 0,1 ppm according to the precision of the method.
- **3.2.2** In the case of samples where the percentage as calculated is greater than  $0.01\,\%$  but less than  $5.0\,\%$ , the result shall be reported to the nearest  $0.1\,\%$  or  $0.01\,\%$  according to the precision of the method.
- **3.2.3** In the case of samples where the percentage calculated is greater than 5.0 %, the results shall be reported to the nearest 0.1 %.

#### 3.3 Precision of method

It is assumed that the precision of the test method concerned is sufficient to enable the results to be obtained to within closer limits than the precision to which the results are reported.

 $M_{\rm WF}$  is the mass, in grams, of the water-free test

 $\textit{M}_{\text{WSF}}$  is the mass, in grams, of the water- and silica-free test portion;

 $M_{\rm O}$  is the mass, in grams, of the test portion on an air-dry (as taken) basis;

 ${\bf S}$  is the silica content as a percentage by mass of the test portion (see 4.1);

 $\ensuremath{\mathcal{W}}$  is the water content as a percentage by mass of the test portion (see 4.2).

#### 4.1 Silica content

The silica content is that determined according to either of the methods specified in ISO 2817. The method used shall be stated in the test report.

#### 4.2 Water content

The water content is that determined according to the method specified in ISO...

<sup>1)</sup> In preparation.

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