

<b>STN</b>	<b>Buničiny Stanovenie čísla Kappa</b>	<b>STN ISO 302</b>  50 0258
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Pulps  
Determination of Kappa number

Pâtes  
Détermination de l'indice Kappa

Táto slovenská technická norma obsahuje anglickú verziu medzinárodnej normy ISO 302: 2015 a má postavenie oficiálnej verzie.

This Slovak standard includes the English version of the International standad ISO 302: 2015 and has the status of the official version.

#### **Nahradenie predchádzajúcich slovenských technických noriem**

Táto slovenská technická norma nahrádza STN ISO 302 z februára 2011 v celom rozsahu.

**135358**

## Anotácia

Táto medzinárodná norma špecifikuje metódu stanovenia čísla Kappa buničiny. Číslo Kappa indikuje obsah lignínu alebo bieliteľnosť buničiny.

Táto medzinárodná norma je použiteľná na všetky druhy chemických buničín a polobuničín v rozsahu čísla Kappa 1 až 100. V prípade buničiny s číslom Kappa vyšším ako 100 sa použije postup so spotrebou chlóru (ISO 3260) na opísanie stupňa delignifikácie.

Na dosiahnutie čo najväčšej presnosti a zhodnosti sa veľkosť vzorky musí upraviť tak, aby spotreba manganistanu bola medzi 20 % a 60 % pridaného množstva.

**POZNÁMKA.** – Neexistuje žiadny všeobecný a jednoznačný vzťah medzi číslom Kappa a obsahom lignínu v buničine. Vzťah sa líši v závislosti od drevín a postupu delignifikácie. Všetky zložky oxidované  $\text{KMnO}_4$ , nielen lignín, zvýšia spotrebu  $\text{KMnO}_4$ , a tým zvýšia číslo Kappa. [8] Ak sa má číslo Kappa použiť na odvodenie indexu obsahu lignínu buničiny, pre každý druh buničiny sa budú musieť vyvinúť špecifické vzťahy.

## Národný predhovor

Nasledujúce dokumenty, celé alebo ich časti, sú v tomto dokumente normatívnymi odkazmi a sú nevyhnutné pri jeho používaní. Pri datovaných odkazoch sa použije len citované vydanie. Pri nedatovaných odkazoch sa použije najnovšie vydanie citovaného dokumentu (vrátane všetkých zmien).

**POZNÁMKA 1.** – Ak bola medzinárodná publikácia zmenená spoločnými modifikáciami, čo je indikované označením (mod), použije sa príslušná EN/HD.

**POZNÁMKA 2.** – Aktuálne informácie o platných a zrušených STN a TNI možno získať na webovom sídle [www.unms.sk](http://www.unms.sk).

ISO 638 nahradená ISO 638-1 a ISO 638-2, prijatá ako súbor STN EN ISO 638-1 a STN EN ISO 638-2 Papier, lepenka, buničiny a celulózoové nanomateriály. Stanovenie obsahu sušiny metódou sušenia v sušiarňi (50 0207)

ISO 7213 prijatá ako STN EN ISO 7213 Buničiny. Odber vzoriek na skúšky (ISO 7213) (50 0202)

## Vypracovanie slovenskej technickej normy

**Spracovateľ:** Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

**Technická komisia:** TK 90 Obaly, buničina, papier a lepenka

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 6, *Paper, board and pulps*.

This third edition cancels and replaces the second edition (ISO 302:2004), which has been technically revised.

# Pulps — Determination of Kappa number

## 1 Scope

This International Standard specifies a method for the determination of the Kappa number of pulp. The Kappa number is an indication of the lignin content or bleachability of pulp.

This International Standard is applicable to all kinds of chemical pulps and semi-chemical pulps within the Kappa number range 1 to 100. For pulps with a Kappa number exceeding 100, use the chlorine-consumption procedure (ISO 3260) to describe the degree of delignification.

To achieve the greatest precision and accuracy, the sample size has to be adjusted so that the consumption of permanganate falls between 20 % and 60 % of the amount added.

**NOTE** There is no general and unambiguous relationship between the Kappa number and the lignin content of pulp. The relationship varies according to the wood species and delignification procedure. All compounds oxidized by  $\text{KMnO}_4$ , not only lignin, will increase the consumption of  $\text{KMnO}_4$ , and thereby increase the Kappa number.<sup>[8]</sup> If the Kappa number is to be used to derive an index of pulp lignin content, specific relationships will have to be developed for each pulp type.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 638, *Paper, board and pulps — Determination of dry matter content — Oven-drying method*

ISO 7213, *Pulps — Sampling for testing*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**