

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 699

PULPS

DETERMINATION OF ALKALI RESISTANCE

1st EDITION
March 1968

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BRIEF HISTORY

The ISO Recommendation R 699, *Pulps – Determination of alkali resistance*, was drawn up by Technical Committee ISO/TC 6, *Paper, board and pulps*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

Work on this question by the Technical Committee began in 1962 and led, in 1965, to the adoption of a Draft ISO Recommendation.

In January 1966, this Draft ISO Recommendation (No. 898) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Argentina	Iran	South Africa,
Australia	Israel	Rep. of
Austria	Italy	Spain
Belgium	Japan	Sweden
Brazil	Korea, Rep. of	Switzerland
Bulgaria	Mexico	Turkey
Chile	Netherlands	U.A.R.
Czechoslovakia	New Zealand	United Kingdom
Finland	Norway	U.S.A.
France	Poland	U.S.S.R.
Germany	Portugal	Yugoslavia
India	Romania	

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in March 1968, to accept it as an ISO RECOMMENDATION.

PULPS

DETERMINATION OF ALKALI RESISTANCE

FOREWORD

The scope of both this ISO Recommendation and of ISO Recommendation R 692, *Pulps – Determination of alkali solubility*, is to permit the study of the behaviour of pulps in the presence of alkali solutions, but their fields of application are different : while this ISO Recommendation describes the gravimetric determination of the alkali insoluble constituents and applies to all categories of pulp, ISO Recommendation R 692 describes the volumetric determination of the alkali soluble constituents of the pulp and is applicable preferably for the control of bleached pulps.

1. SCOPE

This ISO Recommendation describes a method for the determination of the alkali - insoluble fraction of pulp using sodium hydroxide solution of a fixed concentration. The concentrations of sodium hydroxide most frequently used are 18, 10 and 5 % (m/m).

2. FIELD OF APPLICATION

This method is applicable to all kinds of pulp.

3. PRINCIPLE OF THE METHOD

The pulp is defibred under specified conditions in sodium hydroxide solution of the chosen concentration.

The insoluble fraction is filtered off, washed with sodium hydroxide solution of the same concentration and temperature as that used for the processing itself, and is acidified, washed, dried and weighed.