

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 747 *withdrawn 1981*

SODIUM CARBONATE FOR INDUSTRIAL USE

EXPRESSION OF TEST RESULTS

1st EDITION

May 1968

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BRIEF HISTORY

The ISO Recommendation R 747, *Sodium carbonate for industrial use - Expression of test results*, was drawn up by Technical Committee ISO/TC 47, *Chemistry*, the Secretariat of which is held by the Ente Nazionale Italiano di Unificazione (UNI).

Work on this question by the Technical Committee began in 1951 and led, in 1956, to the adoption of a Draft ISO Recommendation.

In June 1966, this Draft ISO Recommendation (No. 1013) 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	Italy	Switzerland
Austria	Japan	Turkey
Belgium	Korea, Rep. of	U.A.R.
Brazil	Netherlands	United Kingdom
Chile	New Zealand	U.S.A.
Czechoslovakia	Poland	U.S.S.R.
France	Portugal	Yugoslavia
Germany	Romania	
Hungary	South Africa,	
India	Rep. of	
Israel	Spain	

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 May 1968, to accept it as an ISO RECOMMENDATION.

SODIUM CARBONATE FOR INDUSTRIAL USE

EXPRESSION OF TEST RESULTS

1. SCOPE

This ISO Recommendation describes the different ways of expressing the test results for sodium carbonate for industrial use.

2. EXPRESSION OF RESULTS

Two ways of expressing results are commonly used at present :

- (a) as a percentage by mass of the product as received, (see clause 2.1),
- (b) as a percentage by mass of the non-volatile matter at a temperature of 250 °C, (see clause 2.2).

2.1 As a percentage by mass of the product as received

- 2.1.1 Total soluble alkalinity (expressed as sodium carbonate).
(See ISO Recommendation R 740, *Sodium carbonate for industrial use – Determination of total soluble alkalinity – Volumetric method*, section 7).
- 2.1.2 Sodium hydrogen carbonate.
(See ISO Recommendation R 741, *Sodium hydrogen carbonate for industrial use – Determination of sodium bicarbonate – Volumetric method*, section 6).
- 2.1.3 Chloride (expressed as sodium chloride).
(See ISO Recommendation R 742, *Sodium carbonate for industrial use – Determination of chloride content – Volhard volumetric method*, section 7 and clause 8.5).
- 2.1.4 Sulphate (expressed as sodium sulphate).
(See ISO Recommendation R 743, *Sodium carbonate for industrial use – Determination of sulphate content – Barium sulphate gravimetric method*, section 6).
- 2.1.5 Iron, (expressed as iron (III) oxide).
(See ISO Recommendation R 744, *Sodium carbonate for industrial use – Determination of iron content – 2,2'-bipyridyl photometric method*, section 6).
- 2.1.6 Loss of mass at 250 °C.
(See ISO Recommendation R 745, *Sodium carbonate for industrial use – Determination of loss of mass and of non-volatile matter at 250 °C*, section 6).
- 2.1.7 Matter insoluble in water at 50 °C.
(See ISO Recommendation R 746, *Sodium carbonate for industrial use – Determination of matter insoluble in water at 50 °C*, section 6).