

BUREAU OF INDIAN STANDARDS

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Draft Indian Standard

**METHOD OF TEST FOR BROWN COALS AND LIGNITES:
PART 4 DETERMINATION OF YIELD OF BENZENE - SOLUBLE EXTRACT — SEMI
- AUTOMATIC METHOD**

*[Third Revision of IS 5062 (Part 4)]
(ICS 73.040)*

Solid Mineral Fuels and Solid Biofuels
Sectional Committee, PCD 7

Last date for comments:
20 May 2024

NATIONAL FOREWORD

(Formal clauses will be added later).

This standard was originally published in 1969 and subsequently revised in 2004 and 2018. The 1969 version was formulated in accordance with the ‘Draft Recommendation No. 1126’ prepared by ISO/TC 27 ‘Solid Mineral Fuels’ of ISO with title as ‘Methods of test for Brown Coals and Lignites: Part 4 Determination of Yield of Benzene-Soluble Extract’. The draft recommendation was subsequently published as ISO 975.

The first revision was taken up to align it with ISO 975 : 2000 ‘Brown coals and lignites - Determination of yield of benzene-soluble extract — Semi-automatic method’, with modified title as ‘Methods of test for brown coals and Lignites: Part 4 Determination of yield of benzene-soluble extract — Semi-automatic method’. The second revision was identical with ISO 975 : 2013 ‘Brown coals and lignites - Determination of yield of benzene-soluble extract — Semi-automatic method’. This (*third*) revision has been undertaken to align it with the latest version of ISO 975 : 2021.

The major changes in this revision are as follows:

- referenced documents have been updated;
- terms and definitions have been added;
- sample has been added;
- calculation and expression of results have been amended;
- precision has been amended; and
- test report has been amended.

This standard is published in eight parts. Other parts in this series are:

- Part 1 Determination of moisture content by the direct volumetric method
- Part 2 Determination of ash
- Part 3 Determination of the yields of tar, water, gas and coke by low temperature distillation
- Part 5 Determination of acetone-soluble material (resinous substance) in the benzene-soluble extract
- Part 6 Determination of true relative density and apparent relative density (*under revision*)
- Part 7 Determination of humic acids
- Part 8 Determination of Moisture Content
 - Section 1 Indirect gravimetric method for total moisture
 - Section 2 Indirect gravimetric method for moisture in the analysis sample

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 5068-2 Brown coals and lignites — Determination of moisture content — Part 2: Indirect gravimetric method for moisture in the analysis sample	IS 5062 (Part 8/Sec 2) : 2018/ISO 5068-2 : 2007 Methods of test for Brown coals and Lignites : Part 8 Determination of Moisture Content, Section 2 Indirect Gravimetric Method for Moisture in the Analysis Sample	Identical
ISO 13909-4 Hard coal and coke — Mechanical sampling — Part 4: Coal — Preparation of test samples	IS 16143 (Part 4) : 2021/ISO 13909-4 : 2016 Hard Coal and Coke - Mechanical Sampling: Part 4 Coal Sampling from Stationary Lots (<i>first revision</i>)	Identical

The technical committee has reviewed the provisions of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 18283	Coal and Coke — Manual Sampling

In reporting the result of a test or analysis made in accordance with this standard, if the final value,

observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revised*)'.

NOTE — The technical content of this document has not been enclosed as this is identical with the ISO Standard. For details, please refer to ISO 975 : 2021 or kindly contact:

Smt. Meenal Passi

Sc – F & Head (PCD)

Petroleum & Coal related products Department (PCD)

Bureau of Indian Standards

9, B.S. Zafar Marg,

New Delhi-110002

Email: pcd@bis.gov.in

Telephone : 011-23235432