
**Coal — Methods for evaluating
flocclulants for use in coal preparation —
Part 2:
Flocclulants as filter aids in rotary
vacuum filtration systems**

*Charbon — Méthodes d'évaluation des flocclulants utilisés dans
la préparation des charbons —*

*Partie 2: Flocclulants comme aides à la filtration dans des systèmes
rotatoires de filtration sous vide*

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 10086-2 was prepared by Technical Committee ISO/TC 27, *Solid mineral fuels*, Subcommittee SC 1, *Coal preparation: Terminology and performance*.

ISO 10086 consists of the following parts, under the general title *Coal — Methods for evaluating flocculants for use in coal preparation*:

- *Part 1: Basic parameters*
- *Part 2: Flocculants as filter aids in rotary vacuum filtration systems*

Coal — Methods for evaluating flocculants for use in coal preparation —

Part 2: Flocculants as filter aids in rotary vacuum filtration systems

1 Scope

This part of ISO 10086 specifies a method for the comparative evaluation of the performance of flocculants used as filter aids for rotary vacuum filtration applications on a given slurry.

2 Normative references

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

ISO 10086-1:2000, *Coal — Methods for evaluating flocculants for use in coal preparation — Part 1: Basic parameters*

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3 Principle

The performance of different flocculants on a given slurry is determined by measuring the cake yield and moisture content.

A flocculant solution is added to an aliquot of slurry in a beaker. A filter leaf is then applied to the flocculated sample and the cake thus produced on the apparatus is weighed wet, dried and reweighed. A measure of the efficiency of the flocculant is obtained from the cake yield and moisture content.

4 Apparatus

Ordinary laboratory apparatus and the following.

NOTE The apparatus is generally arranged as shown in Figure 1.

4.1 Laboratory vacuum pump or piped vacuum system, capable of producing a vacuum better than that proposed for the plant equipment.

4.2 Vacuum gauge

4.3 Two-way valves, of at least 2 mm to 3 mm bore, manufactured in glass or plastics.

4.4 Buchner flask, with a minimum volume of 1 L.