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## Hard coal — Determination of caking index

*Houille — Détermination de l'indice d'agglutination*



Reference number  
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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)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 27, *Solid mineral fuels*, Subcommittee SC 5, *Methods of analysis*.

This second edition cancels and replaces the first edition (ISO 15585:2006), which has been technically revised. The main changes compared to the previous edition are as follows:

- Change to test precision (both for repeatability,  $r$ , and reproducibility,  $R$ ) resulting from ILS conducted in 2016 and 2017.
- Additional information provided on anthracite sample packing and homogeneity test in [Annex A](#) and standard deviation formula and flowchart for standard anthracite sample taking in [Annex B](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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## Introduction

Caking index is a key parameter to identify the caking power of hard coal, which is a measurement of the agglutinating strength between the coal particles and inert constituents after heating without the contact of air. Coal caking characteristic is important and widely used in coking, gasification, liquefaction and combustion industries.