

This is a preview of "ISO 1213-1:2020". [Click here to purchase the full version from the ANSI store.](#)

Third edition  
2020-09

---

---

# Coal and coke — Vocabulary —

## Part 1: Terms relating to coal preparation

*Charbon et coke — Vocabulaire —*

*Partie 1: Termes relatifs à la préparation du charbon*



Reference number  
ISO 1213-1:2020(E)

© ISO 2020



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 1213-1:2020". [Click here to purchase the full version from the ANSI store.](#)

## Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative reference</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
3.1 General coal preparation terms.....	1
3.2 Cleaning characteristics.....	5
3.3 Capacity and throughput.....	7
<b>4 Terms related to sizing</b> .....	<b>8</b>
4.1 General.....	8
4.2 Screening.....	10
4.3 Parts of screens.....	12
4.4 Screens according to purpose.....	13
4.5 Screens according to principle of construction.....	14
4.6 Sizing in a current of air or water.....	15
<b>5 Terms related to cleaning</b> .....	<b>15</b>
5.1 General.....	15
5.2 Dry cleaning.....	17
5.3 Jigging.....	18
5.4 Dense medium cleaning.....	21
5.5 Cleaning equipment (miscellaneous).....	23
5.6 Froth flotation.....	25
<b>6 Terms related to separation of solids from water or air</b> .....	<b>28</b>
6.1 General.....	28
6.2 Dewatering.....	29
6.3 Clarification and thickening.....	30
6.4 Separation of solids from air.....	31
<b>7 Terms related to size reduction</b> .....	<b>32</b>
7.1 General.....	32
7.2 Size reduction machines.....	33
<b>8 Terms related to the expression of results</b> .....	<b>34</b>
8.1 General terms.....	34
8.2 Sizing operations.....	35
8.3 Cleaning operations.....	37
<b>9 Terms related to miscellaneous</b> .....	<b>38</b>
<b>10 Terms related to blending and homogenization terms</b> .....	<b>39</b>
<b>11 Terms related to automatic control terms</b> .....	<b>41</b>
11.1 General.....	41
11.2 Control equipment.....	42
11.3 Control terminology.....	45
<b>Bibliography</b> .....	<b>49</b>
<b>Index</b> .....	<b>50</b>

## 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)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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, *Coal and coke*, Subcommittee SC 1, *Coal preparation: Terminology and performance*.

This third edition cancels and replaces the second edition (ISO 1213-1:1993), which has been technically revised.

A list of all parts in the ISO 1213 series can be found on the ISO website.

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).

This is a preview of "ISO 1213-1:2020". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

This document takes into account the distinction between processes or operations and the methods or machines for carrying them out.

[Clause 3](#) is devoted primarily to coal properties and the principal operations involved in coal preparation, and also includes general terms such as those relating to capacities and flowsheets.

[Clauses 4](#) to [7](#) cover the detailed terminology relating to sizing, cleaning, separation of solids from water or air, and size reduction.

[Clause 8](#) deals with the terms involved in interpreting or expressing the results of coal preparation operations.

[Clause 9](#) includes some miscellaneous terms.

[Clause 10](#) covers terms related to blending and homogenization.

[Clause 11](#) covers terms related to automatic control. Of necessity, it covers only a limited selection of terms. A list of other International Standards, which together provide a more comprehensive set of terms, is given in Bibliography.

Most of the clauses are subdivided, and in each case the first subclause includes general terms and the remaining subclauses cover groups of related terms. As far as possible, this logical principle has been carried through into the arrangement of the terms themselves, which are also numbered for ease of reference. An alphabetical index is also provided, with a numerical cross-reference.