

Derivatives from coal pyrolysis — Coal tar and pitch based binders and related products: carbon binder pitch — Characteristics and test methods

The European Standard EN 14263:2003 has the status of a
British Standard

ICS 75.140

National foreword

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English version

Derivatives from coal pyrolysis - Coal tar and pitch based
binders and related products : carbon binder pitch -
Characteristics and test methods

Produits dérivés de la pyrolyse du charbon - Liants à base
de goudron et de brais issus de la houille et produits
connexes: brai liant pour pièces carbonées -
Caractéristiques et méthodes d'essai

Derivate der Kohlenpyrolyse - Bindemittel aus
Steinkohlenteer und Steinkohlenteerpech und verwandte
Produkte: Bindepech für Kohlenstoffprodukte -
Anforderungen und Prüfverfahren

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Foreword

This document (EN 14263:2003) has been prepared by Technical Committee CEN /TC 317, "Derivatives from coal pyrolysis", the secretariat of which is held by IBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2004, and conflicting national standards shall be withdrawn at the latest by March 2004.

In this European Standard the annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the methods of test required to determine the characteristics for "carbon binder pitch" used as industrial purposes.

Depending on the required application and the desired properties of the end product, different grades of carbon binder pitch are available.

NOTE Carbon binder pitch can also be used as a binder for refractory products.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1427, *Bitumen and bituminous binders - Determination of softening point - Ring and Ball method*

EN 13847:2001, *Coal tar and pitch based binders and related products - Terminology and classification*

ISO 6257, *Carbonaceous materials used in the production of aluminium - Pitch for electrodes - Sampling*

ISO 6376, *Carbonaceous materials for the production of aluminium - Pitch for electrodes - Determination of the content of toluene-insoluble material*

ISO 6791, *Carbonaceous materials for the production of aluminium - Pitch for electrodes - Determination of contents of quinoline-insoluble material*

ISO 6998, *Carbonaceous materials for the production of aluminium - Pitch for electrodes - Determination of coking value*

ISO 8006, *Carbonaceous materials used in the production of aluminium - Pitch for electrodes - Determination of ash*

DIN 51920, *Prüfung von Kohlenstoffmaterialien - Bestimmung des Erweichungspunktes nach Mettler - Binde- und Imprägniermittel*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 13847:2001 apply.

4 Classification

For the purposes of this European Standard, the classification according to EN 13847:2001 applies.

5 Characteristics

The following characteristics shall be determined:

- a) Softening point;
- b) Ash content;
- c) Toluene-insolubles content;
- d) Quinoline-insolubles content ;
- e) Coking value.

6 Specifications

Specifications requested by the customers shall be applied.

The typical values given in annex A can be used as minimum requirements.

7 Sampling

The ISO 6257 specifies methods for sampling and preparing samples for testing of carbon binder pitch.

These methods are applicable to all grades of carbon binder pitch in liquid or solid form, the latter having softening points higher than 30 °C (determined according to the method EN 1427) in bulk, or in a numbers of containers making up one batch at sites of manufacture, storage or delivery.

Sampling methods and sampling plans for large consignments, or lots, of pitch in liquid form during the loading and unloading of ships are included.

8 Test methods

For the determination of the characteristics according to clause 5, the methods listed in Table 1 have to be used.

Table 1 — Test methods

Characteristic	Test methods
Ash content	ISO 8006
Toluene-insoluble content	ISO 6376
Quinoline-insoluble content	ISO 6791
Coking value	ISO 6998
Softening point	DIN 51920

Annex A (informative)

Typical values

The typical values in Table A.1 can be used as requirements of the carbon binder pitch.

Table A.1 — Typical values

Softening point	50 °C to 200 °C
Ash content	0,1 to 1,0%
Toluene-insoluble content	10 % to 45 %
Quinoline-insoluble content	2 % to 20 %
Coking value	> 35 %

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