

Derivatives from coal pyrolysis — Coal tar based oils: wash oils — Specifications and test methods

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National foreword

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méthodes d'essais

Derivate der Kohlenpyrolyse - Steinkohlenteeröle:
Waschöle - Anforderungen und Prüfverfahren

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Foreword

This document (EN 15536:2007) has been prepared by Technical Committee CEN/TC 317 “Derivatives from coal pyrolysis”, the secretariat of which is held by IBN/BIN.

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of an identical text or by endorsement, at the latest by September 2007, and conflicting national standards shall be withdrawn at the latest by September 2007.

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1 Scope

This European Standard specifies and defines test methods for coal tar wash oils. Annex A specifies usage warnings for industrial purposes. The main purposes of these oils are to dissolve hydrocarbon derivatives in coke oven gas to clean greasy metal pieces.

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.

EN 1014-1, *Wood preservatives – Creosote and creosoted timber – Methods of sampling and analysis – Part. 1: Procedure for sampling creosote*

EN 13991: 2003, *Derivatives from coal pyrolysis – Coal tar based oils: creosotes – Specifications and tests methods*

EN ISO 3405, *Petroleum products – Determination of distillation characteristics at atmospheric pressure (ISO 3405:2000)*

EN ISO 3675, *Crude petroleum and liquid petroleum products – Laboratory determination of density – Hydrometer method (ISO 3675:1998)*

ISO 760, *Determination of water – Karl Fischer method (General method)*

DIN 51405,2004-01 *Testing of mineral oil hydrocarbons, similar liquids and solvents for paints and varnishes – Analysis by gas chromatography – General working principles*

3 Terms and Definitions

For the purposes of this European Standard, the following term and definition applies.

3.1

wash oil

common commercial name for a coal tar distillation cut or a preparation based on several distillates of coal tar used to dissolve hydrocarbons in various areas of application

NOTE Wash oil consists primarily of aromatic hydrocarbons, tar acids and tar bases

4 Sampling

Samples for assessing the characteristics listed in Table 1 shall be in accordance with EN 1014-1.

5 Specifications and test methods

Table 1 — Specifications and test methods for wash oils

Parameters		Test methods
Water content (% m/m)	< 1	ISO 760 ^a
Distillation range (°C)		EN ISO 3405
Starting point	> 150	
> 90 % m/m	360	
Crystallization temperature (°C)	< 10	EN13991: 2003, Annex A
Naphthalene content (%)	< 10	DIN 51405 ^b
Density at 20°C (kg/m ³)	1 000 to 1 080	EN ISO 3675
^a Alternatively, ISO 3733 may be used. ^b Alternatively, ASTM E-260 may be used		

Annex A (informative)

Usage warnings¹⁾

A.1 Compostion – Data on components

CAS. N° Designation: not applicable

Identification number(s):

EINECS Number: not applicable.

EU Number: not applicable.

Description: Complex mixture of polynuclear aromatic and heterocyclic hydrocarbons.

Dangerous components: See MSDS.

A.2 First aid measures

General information: instantly remove any clothing spoiled by the product.

After inhalation: Supply fresh air and consult a doctor in case of symptoms.

After skin contact: Wash immediately with soap and water and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: In case of persistent symptoms consult doctor.

A.3 Handling and storage

Handling:

Information for safe handling: No special measures required; precautions against electrostatic charging.

Information about protection against explosions and fires: No special measures required.

Storage:

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility: Keep the container tightly sealed.

Further information about storage conditions: None.

1) The latest published edition of the Material Safety Data sheet of the product applies.

A.4 Disposal considerations

Product:

European waste catalogue: The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specific for each specific branch of industry and each type of process.

Uncleaned packaging:

Recommendation: Disposal should be according to official regulations.

Recommended cleaning agent: Water, if necessary with a cleaning agent.

Bibliography

- [1] ISO 3733, *Petroleum products and bituminous materials – Determination of water – Distillation method*
- [2] ASTM E260-96 (2006) *Standard Practice for Packed Column Gas Chromatography*

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