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Pitch from coal liquefaction

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Pitch from coal liquefaction

1 Scope

This Standard specifies the terms and definitions, technical requirements and test methods, inspection rules, packaging, marking, transportation, storage, delivery acceptance and safety requirements for pitch from coal liquefaction.

This Standard applies to pitch products that are produced by processes such as hydro-liquefaction and coal-oil co-processing, with coal as raw material.

2 Normative references

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

GB/T 267, Petroleum products - Determination of flash and fire points (Open cup)

GB/T 2288, Coking products - Determination of moisture content

GB/T 2292, Determination of toluene insoluble content for coking products

GB/T 2293, The method of quinoline-insoluble for pitch products of coal carbonization

GB/T 4509, Standard test method for penetration of bitumen

GB/T 5304, Asphalt thin-film oven test method

GB/T 6679, General rules for sampling solid chemical products

GB/T 8928, Standard test method for density of semi-solid and solid asphalt

GB/T 29748, Coal direct liquefaction - Determination of ash in coal liquefaction residue

GB 30000.8-2013, Rules for classification and labelling of chemicals - Part 8: Flammable solids

GB/T 30043, Coal direct liquefaction - Determination of softening point of liquefaction residue - Ring and ball apparatus

Quinoline insoluble matter/%	≤1.0	≤5.0	-	GB/T 2293
Moisture/%	≤5.0			GB/T 2288
Density (25 °C)/(g/cm ³)	Report			GB/T 8928
When pitch from coal liquefaction is used downstream, according to its use, attention shall also be paid to the indicators of sulfur and other harmful elements, which shall meet relevant regulations.				

5 Inspection rules

5.1 Delivery inspection

Delivery batch inspection items: ash, softening point, toluene insoluble matter, moisture.

Delivery cycle inspection items: penetration, mass change, flash point, quinoline insoluble matter, density. In the case of stable production, the inspection cycle is one year.

5.2 Type inspection

All inspection items that are specified in Table 1 are type inspection items.

Carry out type inspection in the following cases:

- Trial type appraisal of new products or products that are transferred to the factory for production;
- After formal production, if there are major changes in structure, materials and processes, which may affect product performance;
- When production resumes after a long-term shutdown;
- Type inspection according to cycle during normal production;
- When the national quality supervision institutions propose a requirement to carry out type inspection;
- When the user proposes a requirement to carry out type inspection.

5.3 Batch rules

In the case of the same production process, the volume of each batch of products does not exceed 2 000 t.

5.4 Sampling rules

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