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**Fluid catalytic cracking slurry oil for use in carbon black
products**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

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1 Scope

China's national standard for the fluid catalytic cracking slurry oil used as carbon black feedstock. It specifies the technical requirements, the test methods, the sampling and the inspection. Carbon black is made by burning or thermally decomposing a heavy aromatic oil under controlled conditions, and the feedstock determines the yield and the character of the product. FCC slurry oil - the heaviest bottoms of the catalytic cracker, too aromatic and too laden with catalyst fines to be worth much as fuel - is close to ideal for the purpose: its high aromaticity is what gives good carbon black yield, since aromatic rings condense to graphitic structures readily. The specification's difficulty is the catalyst fines, which come over from the cracker and end up as ash in the carbon black, where they are abrasive and unacceptable in a rubber compound. Ash content and the Bureau of Mines correlation index are therefore the numbers the trade turns on.

This document specifies the technical requirements, test methods, sampling, inspection rules, and storage of carbon black feedstock oil refining catalytic slurry. This document applies to carbon black feedstock oil refining catalytic oil slurry.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 260 Determination of Water Content in Petroleum Products Distillation Method

GB/T 2281 Test method for density of coker oil products

GB/T 2295 Method for Determination of Ash Content in Coking Solid Products

GB/T 3536 Determination of Flash Point and Fire Point of Petroleum Products Cleveland Open Cup Method

GB/T 4756 Petroleum liquid manual sampling method

GB/T 8170 Numerical rounding off rules and expression and determination of limit values

GB/T 18255 Method for Determination of Distillation Range of Coking Viscous Oil Products

GB/T 24209 Method for Determination of Washing Oil Viscosity SH/T 0266 Determination of Petroleum Asphaltene Content SH/T 0689 Determination of total sulfur content of light hydrocarbons and motor fuels and other oil products (ultraviolet fluorescence method) SN/T 2725 Determination of Sodium, Potassium and Iron Content in Coal Tar and Anthracene Oil - Atomic Absorption Spectrometry

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

4 Technical Requirements

The technical requirements of petroleum refining catalytic oil slurry should meet the requirements in Table 1. Table

1 Technical Requirements for Petroleum Refining Catalytic Oil Slurry Serial number test item technical requirements