

Supplementary Materials: Characterization and Removal Potential of Fluorine in Lignite from a Mine in Shaanxi Province, China: A Case Study

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Table S1. List of Chinese Standards [1].

| No. | Name |
|-----------------|--|
| GB/T16417–2011 | Method for evaluating the washability of coal |
| GB/T 212–2008 | Proximate analysis of coal |
| GB/T 213–2008 | Determination of the calorific value of coal |
| GB/T 214–2007 | Determination of total sulfur in coal |
| GB/T 31391–2015 | Ultimate analysis of coal |
| GB/T 36167–2018 | Methods for coal preparation laboratory timed-release flotation analysis |
| GB/T 474–2008 | Method for preparation of coal sample |
| GB/T 4757–2013 | Methods for the batch flotation testing of fine coal |
| GB/T 477–2008 | Method for size analysis of coal |
| GB/T 478–2008 | Method for float and sink analysis of coal |
| GB/T 5751–2009 | Chinese classification of coals |

Table S2. The amount of product in each size group and their ash, sulfur, and fluorine contents and distribution.

| Size fraction | Wt. | A _d | St _d | F _{ad} |
|---------------|-------|----------------|-----------------|-----------------|
| mm | % | % | % | µg/g |
| 50–25 | 17.18 | 42.1 | 2.29 | 271.88 |
| 25–13 | 18.67 | 33.13 | 2.01 | 218.49 |
| 13–6 | 19.94 | 31.61 | 3.23 | 181.44 |
| 6–3 | 14.75 | 31.54 | 3.15 | 140.56 |
| 3–1 | 12.4 | 31.94 | 3.23 | 151.5 |
| 1–0.5 | 7.44 | 40.3 | 2.94 | 162.33 |
| <0.5 | 9.62 | 49.68 | 1.84 | 347.74 |

Reference

- Chinese Standard GB/T, GBT, GB. Available online: www.ChineseStandard.net (accessed on 13 February 2022).