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Methods for

Froth flotation testing of hard coal —

Part 2: Evaluation of flotation
characteristics

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee SFI/5, Coal preparation, upon which the following bodies were represented:

- British Coal Corporation
- Coal Preparation Plant Association
- Low Temperature Coal Distillers' Association of Great Britain Ltd.
- Minerals Engineering Society

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Foreword

This Part of BS 7530 was prepared by Technical Committee SFI/5. It is one of two Parts giving methods for froth flotation testing of hard coal. BS 7530-1 sets out the procedure for a laboratory test to determine whether or not a coal is amenable to up-grading in quality by froth flotation.

It is accepted that variation of the many parameters in the froth flotation process can be used to effect the beneficiation of the product. This Part of this British Standard describes methods of applying certain test conditions to reveal the relative response of coals to the flotation process.

To facilitate the determination of how a particular coal will respond to froth flotation, a method of controlling the recovery of froth is used. This is done by inhibiting the process to a degree, determining the rate at which a coal reacts and by progressively sampling the froth. This method provides a basis to vary test parameters to explore any special flotation characteristics.

This standard is applicable to a wide range of coals and provides a method of comparison of flotation behaviour and will facilitate the exchange of information relating to specific performance. It is expected that the use of this method will provide a tool for comparison of flotation characteristics.

From the results of the standard test it is possible to draw evaluation curves similar to those obtained from float and sink testing of raw coal.

Because of the high reproducibility of results the test represents a reliable means of comparing the flotation response of different samples.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.