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Carbon Materials – Determination Method of the Bulk Density

炭素材料体积密度测定方法

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Table of Contents

Foreword.....	3
1 Scope	4
2 Normative References.....	4
3 Principle	4
4 Apparatus.....	4
5 Specimen	5
6 Test Procedures	5
7 Result Calculation	5
8 Test Report.....	6

Foreword

This Standard was proposed by China Iron and Steel Association.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Steel.

Drafting organizations of this Standard: Sinosteel Jilin Carbon Co., Ltd., and China Metallurgical Information and Standardization Research Institute.

Chief drafting staffs of this Standard: He Jingyuan, Zhang Xifen, Kang Jian, and Wang Jun.

Carbon Materials – Determination Method of the Bulk Density

1 Scope

This Standard specifies the principle, apparatus, specimen, test procedures and result calculation for the determination of bulk density of carbon materials.

This Standard is applicable to determination of bulk density of carbon materials at room temperature.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 1427 Sample Method of Carbon Material

GB/T 8170 Rules of Rounding off for Numerical Values & Expression and Judgement of Limiting Values

3 Principle

The bulk density of carbon materials indicates the mass of unit volume including the porosity.

4 Apparatus

4.1 Balance: weighing range (0 ~ 1000)g, sensibility 0.01g.

4.2 Blast drying oven: it is equipped with automatic temperature control device, which can maintain the temperature at (105 ~ 110) °C.

4.3 Vernier caliper: measuring range (0~ 200)mm, accuracy 0.02mm.

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