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Iron ores-Method for determination of assimilation performance

铁矿石 同化性能测定方法

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Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents"

Drafting:

Please note that some of the contents of this document may involve patents: The issuing organization of this document does not assume the responsibility for identifying patents:

This document was proposed by the China Iron and Steel Association:

This document is under the jurisdiction of the National Iron Ore and Direct Reduced Iron Standardization Technical Committee (SAC/TC317):

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Determination method of assimilation performance of iron ore

1 Scope

This document describes the terms and definitions, principles, materials, instrumentation, sample preparation, test procedures, Precision and test reports:

This document applies to the determination of the assimilation properties of iron ore:

2 Normative references

GB/T 6379

GB/T 6379

GB/T 8170

GB/T 10322

GB/T 20565

3 Terms and definitions

The terms and definitions defined in GB/T 20565 and the following apply to this document:

3:1 The reactivity of iron oxides in iron ore with calcium oxide reflects the difficulty of generating liquid phase during sintering of iron ore:

The three parameters of assimilation evaluation were start temperature, end temperature of assimilation and assimilation reaction time: 3:2 T_s In the assimilation reaction test, when the iron ore powder sample decreases by 0.5 mm in the longitudinal direction or increases or decreases by 0.5 mm in the transverse direction, it is judged that the assimilation reaction has started:

The temperature corresponding to this time: 3:3 T_e After the assimilation reaction test begins, the size of the iron ore powder sample does not change within 6 minutes, and the assimilation reaction is judged to have occurred before 6 minutes:

It should end, and the temperature corresponding to the end: 3:4 Assimilation time The time from the start to the end of the assimilation reaction in the assimilation reaction test: