
National Standard of the People's Republic of China

Iron ores –Low – temperature disintegration test - Method using cold tumbling after static reduction

GB/T 13242 - 91

铁矿石 低温粉化试验 静态还原后 使用冷转鼓的方法

This standard is adopted by reference to ISO 4696 - 1984, *Iron ores - Iron ores - Low – temperature disintegration test - Method using cold tumbling after static reduction.*

1 Subject and scope of application

This standard specifies the basic principle, conditions, apparatus, specimen preparation, procedures, and results assessment etc. for low – temperature disintegration test of iron ore (including natural iron ore, iron ore agglomerates such as pellets or sinter, hereinafter referred to as "iron ore"). The specific features of this test are: isothermal reduction in a fixed bed with mixture of CO, CO₂ and N₂; tumbling the reduced sample for disintegration test at room temperature; specimen with a certain size range.

This standard is applicable to determination of reduction disintegration performance of iron ores expressed by reduction - disintegration index.

The results of this test should be considered in conjunction with the results of other tests, particularly those showing the metallurgical behavior of materials during reduction.

2 Normative references

GB 6003, *Test sieves*

GB 6005, *Test sieves - Metal wire cloth perforated metal plate and electroformed sheet - Nominal sizes of openings*

GB 8170, *Rules of rounding off for numerical values*

GB 10122, *Iron ores (sinter and pellets) - Sampling and sample preparation for physical testing*

GB/T 13241, *Iron ores - Determination of reducibility*

3 Definitions

The reduction - disintegration index (*RDI*) means the degree of disintegration of an iron ore that has been reduced and then tumbled. It is respectively calculated as the percentage by mass of material more than 6.30 mm, more than 3.15 mm, and less than 500 μm is

This standard is approved by China State Bureau of Technical Supervision on November 06, 1991 and will be implemented on July 01, 1992.



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