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# National Standard of the People's Republic of China

## Iron ores—Determination of reducibility

GB/T 13241 91

### 铁矿石 还原性的测定方法

This standard is adopted by reference to ISO 4695-1984, *Iron ores—Determination of reducibility*

#### 1 Subject and scope of application

This standard specifies the basic principle, conditions, apparatus, specimen preparation, procedures, and results assessment etc. for reducibility determination method 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 and N<sub>2</sub>; specimen with a certain size range.

This standard applies to determination of reducibility of iron ores expressed as degree of reduction and reduction velocity.

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 6730.4, *Methods for chemical analysis of iron ores — The stannous chloride mercuric chloride potassium dichromate volumetric method for the determination of total iron content*

GB 6730.5, *Methods for chemical analysis of iron ores — The titanium chloride mercuric chloride potassium dichromate volumetric method for the determination of total iron content*

GB 6730.8, *Methods for chemical analysis of iron ores — The potassium dichromate volumetric method for the determination of iron (2) content*

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

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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