

ISO 4698:2022-11 (E)

Iron ore pellets for blast furnace feedstocks - Determination of the free-swelling index

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Sampling, sample preparation and preparation of test portions	1
5.1	Sampling and sample preparation	1
5.2	Preparation of test portions	2
6	Apparatus	2
7	Test conditions	5
7.1	General	5
7.2	Reducing gas	5
7.2.1	Composition	5
7.2.2	Purity	5
7.2.3	Flow rate	5
7.3	Heating and cooling gas	5
7.4	Temperature of the test portion	5
8	Procedure	6
8.1	Number of determinations for the test	6
8.2	Reduction	6
8.3	Volume determination	6
9	Expression of results	6
9.1	Calculation of the free-swelling index (VFS)	6
9.2	Repeatability and acceptance of test results	7
10	Test report	7
11	Verification	7
Annex A (normative) Flowsheet of the procedure for the acceptance of test results		8
Annex B (normative) Methods for determination of the volume of the test portion		9