

# ISO 7992:2022-05 (E)

## Iron ores for blast furnace feedstocks - Determination of reduction under load

---

<b>Contents</b>		<b>Page</b>
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 .....	2
5.1	Sampling and sample preparation .....	2
5.2	Preparation of test portions .....	2
6	Apparatus .....	2
7	Test conditions .....	6
7.1	General .....	6
7.2	Reducing gas .....	6
7.2.1	Composition .....	6
7.2.2	Purity .....	6
7.2.3	Flow rate .....	6
7.3	Heating and cooling gas .....	7
7.4	Temperature of the test portion .....	7
7.5	Loading of the test portion .....	7
8	Procedure .....	7
8.1	Number of determinations for the test .....	7
8.2	Chemical analysis .....	7
8.3	Reduction .....	7
9	Expression of results .....	8
9.1	Preparation of the reduction curve .....	8
9.2	Calculation of the differential pressure at 80 % reduction (p80) .....	8
9.3	Calculation of the change in the height of the test bed at 80 % reduction (h80) .....	8
9.4	Repeatability and acceptance of test results .....	9
10	Test report .....	9
11	Verification .....	9
Annex A (normative) Flowsheet of the procedure for the acceptance of test results .....		11
Annex B (informative) Derivation of equation for reducibility .....		12