ISO 3087:2020 (E)

Iron ores — Determination of the moisture content of a lot

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

5 Apparatus

6 Samples

7 Procedure

- 7.1 Number of moisture measurements
- 7.2 Reference methods
- 7.2.1 General
- 7.2.2 Normal reference method
- 7.2.3 Optional reference method for ores of high combined water content
- 7.3 Alternative methods
- 7.3.1 General
- 7.3.2 Adjustment of drying time only

8 Verification

9 Calculation and expression of results

- 9.1 Test portion
- 9.2 Lot

10 Test report

Annex A (informative) Determination of moisture content of adhesive or wet iron ores

- A.1 General
- A.2 Procedure

Annex B (normative) Corrections for sprinkled water and/or rainwater

- B.1 General
- B.2 Corrections for sprinkled water
- B.2.1 General
- B.2.2 Measurement of sprinkled water
- B.2.3 Mass of lot
- B.2.4 Calculation of moisture content corrected for sprinkled water added during unloading operations prior to taking moisture samples
- B.2.5 Calculation of moisture content corrected for sprinkled water added during loading operations after taking moisture samples
- B.3 Corrections for rainwater
- B.3.1 General
- B.3.2 Effective area caught in the rain
- B.3.3 Duration of rainy periods
- B.3.4 Amount of rainwater
- B.3.5 Mass of rainwater

B.3.6 Calculation of moisture content corrected for rainwater ingress during unloading operations prior to taking moisture samples
B.3.7 Calculation of moisture content corrected for rainwater ingress during loading operations after taking moisture samples
B.4 Corrections for both sprinkled water and rainwater ingress during unloading operations prior to taking moisture samples
B.5 Corrections for both sprinkled water and rainwater ingress during loading operations after taking moisture samples

Annex C (informative) Precision of moisture measurement

Annex D (informative) Examples of test reports

Page count: 35