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
- 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