DIN EN ISO 11260:2018-11 (E)

Soil quality - Determination of effective cation exchange capacity and base saturation level using barium chl oride solution (ISO 11260:2018)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **5**

2 Normative references ... **5**

3 Terms and definitions ... **5**

4 Principle ... **5**

5 Interferences ... **6**

6 Procedures ... **6**

6.1 Sample pretreatment ... 6

6.2 Leaching ... 6

6.2.1 Reagents ... 6

6.2.2 Leaching procedure ... 7

6.3 Determination of CEC ... 7

6.3.1 Principle ... 7

6.3.2 Reagents ... 7

6.3.3 Calibration series ... 7

6.3.4 Spectrometric procedure ... 7

6.3.5 Calculation ... 8

6.4 Determination of exchangeable sodium and potassium ... 9

6.4.1 Principle ... 9

6.4.2 Reagents ... 9

6.4.3 Calibration series ... 9

6.4.4 Spectrometric procedure ... 9

6.4.5 Calculations ... 9

6.5 Determination of exchangeable calcium and magnesium ... 10

6.5.1 Principle ... 10

6.5.2 Reagents ... 10

6.5.3 Calibration series ... 11

6.5.4 Spectrometric procedure ... 11

6.5.5 Calculation ... 11

7 Performance characterization ... **11**

7.1 Calibration check ... 11

7.2 Repeatability and reproducibility ... 12

8 Test report ... **12**

Annex A (informative) **Performance data** ... **13**

Bibliography ... **16**