

DIN EN 12946:2023-08 (E)

Liming materials - Determination of the calcium content and magnesium content - Complexometric method

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	5
5	Reagents	5
5.1	General	5
5.2	Hydrochloric acid solution	5
5.3	Hydrochloric acid solution	6
5.4	Hydrochloric acid solution	6
5.5	Standard calcium solution, containing 2,004 g of calcium per litre	6
5.6	Standard magnesium solution, containing 1,216 g of magnesium per litre	6
5.7	Ethylenediamine tetraacetic acid (EDTA) standard solution, c(EDTA) = 0,05 mol/l	6
5.8	Calcein thymolphthalein indicator	6
5.9	Calcon carbonic acid indicator	7
5.10	Eriochrome black T indicator	7
5.11	Triethanolamine	7
5.12	Buffer solution, pH 10,5	7
5.13	Sodium hydroxide solution	7
6	Apparatus	7
7	Sampling	7
8	Procedure	7
8.1	Preparation	7
8.2	Determination	8
8.3	Control test of the standard solutions	9
9	Expression of results	9
10	Precision	9
10.1	General	9
10.2	Repeatability	10
10.3	Reproducibility	10
11	Test report	10
Bibliography		11