DIN EN 16003:2012-02 (E)

Chemicals used for treatment of water intended for human consumption - Calcium magnesium carbonate

Contents

Page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Description 6
3.1 Identification 6
3.1.1 Chemical name 6
3.1.2 Synonym or common name 6
3.1.3 Relative molecular mass 6
3.1.4 Empirical formula 6
3.1.5 Chemical formula 6
3.1.6 CAS Registry Number 6
3.1.7 EINECS reference 7
3.2 Commercial forms 7
3.3 Physical properties 7
3.3.1 Appearance 7
3.3.2 Density 7
3.3.3 Solubility in water 7
3.3.4 Vapour pressure 7
3.3.5 Boiling point at 100 kPa 7
3.3.6 Melting point 7
3.3.7 Specific heat 7
3.3.8 Viscosity (dynamic) 7
3.3.9 Critical temperature 7
3.3.10 Critical pressure 7
3.3.11 Physical hardness 8
3.3.12 Particle size 8
3.4 Chemical properties 8

4 Purity criteria 8
4.1 General 8
4.2 Composition of commercial product 8
4.3 Impurities and main by-product 8
4.4 Chemical parameters 9

5 Test methods 9
5.1 Sampling 9
5.2 Analyses 9

6 Labelling - Transportation - Storage 9
6.1 Means of delivery 9
6.2 Risk and safety labelling according to the EU Directives 9
6.3 Transportation regulations and labelling 10
6.4 Marking 10
6.5 Storage 10
6.5.1 Long term stability 10
6.5.2 Storage incompatibilities 10

Annex A (informative) General information on calcium carbonate 11

A.1 Origin 11
A.1.1 Raw materials 11
A.1.2 Manufacturing process 11
A.2 Use 11
A.2.1 Function 11
A.2.2 Other properties 11
A.2.3 Form in which it is used 11
A.2.4 Treatment dose 11
A.2.5 Means of application 12
A.2.6 Secondary effects 12
A.2.7 Removal of excess product 12
A.3 Rules for safe handling and use 12
A.4 Emergency procedures 12
A.4.1 First aid 12
A.4.2 Spillage 12
A.4.3 Fire 12

Bibliography 13