

1. Record Nr.	UNISA996212580203316
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Titolo	Lime and limestone [[electronic resource]] : chemistry and technology, production and uses // J.A.H. Oates
Pubbl/distr/stampa	Weinheim, Federal Republic of Germany ; ; New York, : Wiley-VCH, c1998
ISBN	1-281-76385-3 9786611763855 3-527-61202-5 3-527-61201-7
Descrizione fisica	1 online resource (474 p.)
Disciplina	553.51 622.3516
Soggetti	Lime Limestone
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Lime and Limestone; Contents; 32 Other Uses of Quick and Slaked Lime; 1.1 Introduction; 1.1 General; 1.2 Importance of Lime and Limestone; 1.3 History [1.1-1.3]; 1.4 References; Part 1 Production of Limestone; 2 Formation, Classification and Occurrence of Limestone; 2.1 Formation of Limestone; 2.2 Classification of Limestones; 2.3 Occurrence of Limestones; 2.4 References; 3 Physical and Chemical Properties of Limestone; 3.1 Physical Properties; 3.2 Chemical Properties; 3.3 Impurities; 3.4 References; 4 Prospecting and Quarrying; 4.1 Introduction; 4.2 Prospecting; 4.3 Quarrying; 4.4 Loading 4.5 Hauling4.6 Current Trends in Quarrying; 4.7 Dimension Stone; 4.8 References; 5 Processing and Dispatch of Limestone; 5.1 Introduction; 5.2 Crushing; 5.3 Pulverising and Grinding; 5.4 Production of Precipitated Calcium Carbonate; 5.5 Sizing; 5.6 Benefication; 5.7 Storage and Loading Out; 5.8 Transport; 5.9 Specifications; 5.10 References; 6 Sampling and Testing of Limestone; 6.1 Introduction; 6.2 Sampling; 6.3 Sample Preparation; 6.4 Testing; 6.5 CEN Standards for Test Methods; 6.6 References; Part 2 Uses and Specifications of

Limestone

7 Overview and Economic Aspects of the Limestone Market 7.1 General; 7.2 Market Overview; 7.3 Economic Aspects; 7.4 References; 8 Construction and Building; 8.1 Introduction; 8.2 Specifications and Test Methods; 8.3 Aggregates for Concrete; 8.4 Sand for Mortars; 8.5 Unbound Aggregates for Roads; 8.6 Aggregates for Asphalts; 8.7 Other Applications; 8.8 CEN Standards for Aggregates; 8.9 References; 9 Use of Limestone in Cement Production; 9.1 Introduction; 9.2 Portland Cement Production; 9.3 Composite Cements; 9.4 Masonry Cements; 9.5 Calcium Aluminate Cements; 9.6 References

10 The Use of Limestone in Agriculture 10.1 Introduction; 10.2 Arable Land and Pasture; 10.3 Fertilisers; 10.4 Animal Feedstuffs; 10.5 Poultry Grits; 10.6 Neutralising Acid Rainfall; 10.7 References; 11 Use of Limestone in Refining Metals; 11.1 The Production of Iron; 11.2 Open Hearth Steelmaking; 11.3 Smelting; 11.4 The Production of Alumina; 11.5 References; 12 Other Uses of Limestone; 12.1 Introduction; 12.2 Glass Manufacture; 12.3 Ceramics; 12.4 Mineral Wool; 12.5 Acid Gas Removal; 12.6 Sulfite Process for Paper Pulp; 12.7 Production of Organic Chemicals; 12.8 "Rock Dust" for Mines

12.9 Fillers and Extenders 12.10 Water Treatment; 12.11 Sodium Dichromate; 12.12 Calcium Zirconate; 12.13 References; Part 3 Production of Quicklime; 13 Physical and Chemical Properties of Quicklime; 13.1 Physical Properties; 13.2 Chemical Properties; 13.3 References; 14 Raw Materials for Lime Burning (Limestone, Fuel and Refractories); 14.1 General; 14.2 Limestone; 14.3 Fuel; 14.4 Refractory Linings; 14.5 References; 15 Calcination of Limestone; 15.1 Introduction; 15.2 The Chemical Reactions; 15.3 Kinetics of Calcination; 15.4 Sintering of High-calcium Quicklime

15.5 Sintering of Calcined Dolomite

Sommario/riassunto

Modern uses of traditional materials 'Lime and Limestone' is a comprehensive and up-to-date presentation of the main scientific and technological aspects of the quarrying, processing, calcining and slaking of lime and limestone products. It places emphasis on how the processes are designed to ensure that the products meet market requirements and comply with customer specifications. It describes authoritatively, and in detail, the current uses in the many market segments, including: iron, steel and other metals, building, construction and cement, water, sewage and enviro
