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3.2.5 Production Phase3.2.6 Evaporite Production; 3.2.7 Subsurface Brines; 3.3 Process Description; 3.3.1 Precipitation Reaction; 3.3.2 Influence of Reaction Conditions on Mg(OH)(2) Particle Morphology; 3.3.3 Dolime/Lime Requirements; 3.3.4 Seawater Pretreatment; 3.3.5 Precipitation Process; 3.3.6 Settling and Compaction; 3.3.7 Washing; 3.3.8 Filtration; 3.3.9 Brine Precipitation; 3.4 Calcination; 3.5 Grinding; 3.6 Packaging; 3.7 Sampling and Testing and In-Process Quality Control; 3.7.1 Dolime; 3.7.2 Seawater; 3.7.3 Reactor; 3.7.4 Settling/Thickener; 3.7.5 Washing; 3.7.6 Filtration
3.7.7 Calcining3.7.8 Grinding; 3.7.9 Finished Product; 3.8 Aman Process; 3.8.1 Pyrohydrolysis of Magnesium Chloride Hexahydrate; 3.9 General Properties of Synthetic Magnesia; Bibliography; References; 4 Mining and Processing Magnesite; 4.1 Mining Operations; 4.1.1 Overburden Removal; 4.1.2 Drilling; 4.1.3 Bench Height; 4.1.4 Hole Diameter; 4.1.5 Burden and Spacing; 4.1.6 Subdrilling; 4.1.7 Hole Stemming; 4.1.8 Blast Hole Pattern; 4.1.9 Blast Timing; 4.1.10 Blasting Agents; 4.1.11 Secondary Blasting; 4.1.12 Chemical Contour and Muck Maps; 4.2 Processing Magnesite
4.2.1 Ore Removal and Primary Crushing4.2.2 Gyratory and Cone Crushers; 4.2.3 Jaw Crushers; 4.2.4 Roll Crushers; 4.2.5 Size Separation; 4.2.6 Screening; 4.2.7 Pneumatic (Air) Classification; 4.2.8 Hydroclones; 4.3 Gravity Concentration; 4.3.1 Float-Sink Separation; 4.3.2 Froth Floatation; 4.3.3 Floatation Reagents; 4.3.4 Floatation Machines; 4.4 Tertiary Crushing; 4.5 Postcalcination Screening and Grinding; References; 5 Calcination of Magnesium Hydroxide and Carbonate; 5.1 Calcination of Magnesite; 5.1.1 Energy Requirement for Calcination Process; 5.1.2 Effect of Time and Temperature
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Sommario/riassunto

A Complete Guide to Magnesia-From Mining to End UseOften relegated to footnote status in texts, magnesia is nevertheless a valuable substance widely used in applications ranging from wastewater treatment to catalysis. The Chemistry and Technology of Magnesia fills the long-standing gap in the literature with a comprehensive, one-stop reference to ""all things magnesia.""The book brings together the many strands of information on magnesium compounds, their production, testing and evaluation, technology, applications, and markets. Opening with an introductory history of the chemi

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