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1.3.4 Hiding Power and Transparency

1.3.4.1 Hiding Power 1.3.4.2 Transparency; 1.4 Stability Towards Light, Weather, Heat, and Chemicals; 1.4.1 Fundamental Aspects; 1.4.2 Test Methods; 1.4.2.1 Light Stability; 1.4.2.2 Weather Resistance; 1.4.2.3 Heat Stability; 1.4.2.4 Fastness to Chemicals; 1.5 Behavior of Pigments in Binders; 1.5.1 Fundamental Aspects; 1.5.2 Test Methods; 1.5.2.1 Pigment-Binder Interaction; 1.5.2.2 Dispersing Behavior in Paint Systems; 1.5.2.3 Miscellaneous Pigment-Binder Systems; References; 2 White Pigments; 2.1 Titanium Dioxide; 2.1.1 Properties; 2.1.1.1 Physical Properties; 2.1.1.2 Chemical Properties 2.1.1.3 Surface Properties of TiO₂ Pigments 2.1.2 Raw Materials; 2.1.2.1 Natural Raw Materials; 2.1.2.2 Synthetic Raw Materials; 2.1.3 Production; 2.1.3.1 Sulfate Method; 2.1.3.2 The Chloride Process; 2.1.3.3 Pigment Quality; 2.1.3.4 Aftertreatment; 2.1.3.5 Waste Management; 2.1.4 Economic Aspects; 2.1.5 Pigment Properties; 2.1.5.1 Scattering Power; 2.1.5.2 Mass-Tone (or Color); 2.1.5.3 Dispersion; 2.1.5.4 Lightfastness and Weather Resistance; 2.1.6 Analysis; 2.1.7 Uses of Pigmentary TiO₂; 2.1.7.1 Paints and Coatings; 2.1.7.2 Printing Inks; 2.1.7.3 Plastics; 2.1.7.4 Fibers; 2.1.7.5 Paper 2.1.7.6 Other Areas of Application 2.1.8 Uses of Nonpigmentary TiO₂; 2.1.8.1 Electroceramics; 2.1.8.2 Catalysts; 2.1.8.3 Mixed Metal Oxide Pigments; 2.1.8.4 UV Absorption; 2.1.9 Toxicology; 2.2 Zinc Sulfide Pigments; 2.2.1 Properties; 2.2.2 Production; 2.2.2.1 Raw Materials; 2.2.2.2 Lithopone; 2.2.2.3 Sachtolith; 2.2.2.4 Hydrothermal Process; 2.2.2.5 Environmental Protection; 2.2.3 Commercial Products; 2.2.4 Uses; 2.2.4.1 Lithopone; 2.2.4.2 Sachtolith; 2.2.5 Economic Aspects; 2.2.6 Toxicology; 2.3 Zinc Oxide (Zinc White); 2.3.1 Introduction; 2.3.2 Properties; 2.3.2.1 Physical Properties 2.3.2.2 Chemical Properties

Sommario/riassunto

Inorganic Pigments significantly change our surroundings. They are irreplaceable for the coloring of construction materials - their applications range from concrete to artist's colors, from industrial paints to toners in photocopiers, from coloring in foodstuffs to raw materials for catalysts. This book offers everything there is to know about inorganic pigments in a concise and thorough presentation: their manufacturing processes, their applications and markets, their testing procedures and standards, and also the health and environmental regulations relating to them. The reader is pr

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