



Silane: Chemistry, Applications and Performance (Gases - Characteristics, Types and Properties)

By Katsuo Moriguchi, Susumu Utagawa

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Silanes are synthetic compounds containing one or more Si-C bonds. They have wide application in industry, dentistry and medicine. They are used mainly as surface coating agents for surface modification and as coupling agents for adhesion promotion between two dissimilar materials. In this book, the authors present current research in the chemistry, applications and performance of silanes. Topics include the role silanes play in the processing of electronic chips and their thermo-chemical data; silane application in dental materials; thermal cationic polymerization of E-caprolactone using silanes; nanosilica surface modification by low-volatility silane coupling agents; and synthesis of a mesoporous silica hollow microsphere using methyltrimethoxy silane.

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Silane: Chemistry, Applications and Performance (Gases - Characteristics, Types and Properties) By Katsuo Moriguchi, Susumu Utagawa Bibliography

- Rank: #6540198 in Books
- Published on: 2012-10-15
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 7.25" w x .75" l, 1.05 pounds
- Binding: Hardcover
- 176 pages

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