

DOWNLOAD PDF ADDITIVES AND INTERFACES IN ELECTRONIC CERAMICS

Chapter 1 : www.nxgvision.com - Electronics

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The industry is expected to witness significant growth over the forecast period owing to their widespread use in the construction and medical sectors. Growing construction and rising government spending on infrastructural development are expected to have a positive impact on the industry over the forecast period. These materials fulfill demanding hygiene specifications of chemical and mechanical resistance required in bathrooms. Growth in the sanitary ware sector will augment product need over the forecast period. However, rising energy and raw material prices are expected to restrain growth over the next seven years. Growing consumption in various end-use industries will have a positive impact on market growth over the forecast period. Application growth in refractories and disk brakes is expected to restrict raw material availability for product manufacturing, which is expected to impact negatively growth over the forecast period. Rising demand for substitutes such as glass and wood is expected to challenge growth over the next seven years. Additionally, various agencies including the U. Clean Water Act monitor mining operations under the CWA Section and on account of harmful environmental effects. Regulatory pressure aimed at reducing carbon emissions is expected to affect adversely growth over the next seven years. Technological innovations aimed at the development of cost-effective manufacturing processes by companies are expected to remain a critical success factor over the forecast period. Rising government expenditure on infrastructural development in various regions will fuel need over the forecast period. Product demand in the industrial sector was over In the chemical and petrochemical sector, these products are employed in the manufacturing of thermocouple protection tubes, pumping components and rotary seals, while in the coatings sector, ceramics are used on engine components, cutting tools, industrial wear parts, biomedical implants, anti-reflection, optical, self-cleaning coatings for building materials. Growth in the industrial sector will have a positive impact on the overall market over the next seven years. Product Insights Traditional ceramics was the largest product segment in accounting for over Rising construction, particularly in developing regions including Africa and the Middle East coupled with enhanced product properties, is expected to propel need over the next seven years. Increasing population and rapidly evolving standard of living will drive the need for sanitary ware. Product demand is expected to be high in consumer sectors such as hospitals, hotels, educational institutes, industries, housing and other public places. Innovations in the production, as well as changing consumer preferences, are also expected to drive this industry over the next seven years. Regional Insights Asia Pacific is expected to be the fastest growing market with high need from the construction sector. South Korea is expected to show high growth in construction industry owing to private and public investments in commercial, industrial and infrastructure projects. This, in turn, will have a positive impact on the industry over the next seven years North America and Europe were the largest markets in terms of volume accounting for above Increasing need for environment-friendly products in Europe coupled with rising application scope is expected to open new avenues over the forecast period. Competitive Insights The industry is fragmented with several large companies dominating the market. In October , Morgan Advanced Materials developed a new membrane for water purification and filtration for use in industrial wastewater treatment processes.

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