
GIA announces the release of a comprehensive global report on Advanced Ceramics markets. World market for Advanced Ceramics is projected to exceed US$68 billion by the year 2018, driven primarily by recovery in the electronics end-use market, stringent environmental norms, technology improvements and evolution of new Advanced Ceramic composites. Advanced Ceramics are gaining wider usage at the cost of other alternatives in the electronic components market. Going forward, highest growth for Advanced Ceramics is predicted from the medical devices market.

San Jose, CA (PRWEB) September 25, 2012 -- Follow us on LinkedIn – Advanced ceramics market has been witnessing growth in both traditional and new application areas. In traditional applications, growth comes from performance enhancement either through a supplementary role or through substitution of conventional materials, while in newer applications, advanced ceramics are assuming greater role of delivering specific performances not feasible earlier. The unique material solutions offered by advanced ceramic blends are the growth engines for the market, surging ahead to add new dimensions to the market size and value. With the global economy emerging out of the recent recession, factors such as technology improvements, especially in the fracture properties of ceramics, and evolution of new high-temperature fiber-based ceramic composites are offering opportunities for growth. Chemically bonded Ceramics are finding extensive uses in advanced cement based construction products such as, electrical fittings, wall panels, floors, roof tiles, cabinets and pipes. New generation chemically bonded ceramics are gradually cannibalizing plastics and metals in a wide gamut of end-use markets. Projected widespread use of advanced ceramics in automotive heat engines (diesel components, and gas turbines), industrial heat exchangers, electrochemical devices, and medical implants/devices, among others, augurs well for the market in the medium to long term.

The market successfully waded through the recent economic downturn mainly because of the continued expansion of applications and technology developments. Officially out of the recession now, the market is being driven by the recovery in housing and construction sector worldwide. Highest growth is predicted from the medical devices market. Advanced ceramics are increasingly being used in dental procedures and joint implants. Advanced ceramics are currently being used for a range of medical products including implantable electronic sensors, artificial joints and drug delivery devices among several others. Zirconia and Alumina are widely used in advanced ceramics applications in the medical arena. On the other hand, demand for ceramic armors (alumina, boron carbide, silicon carbide) particularly from the US military, is growing at a modest pace, affected by reduced defense spending as an aftermath of the recent recession.

In recent years, regulatory frameworks related to environmental safety fuelled the rapid commercialization of various engineering ceramic products, such as nozzles, catalyst supports, pump seals, bearings, membranes, cutting tools, exhaust and gas filters. The same factors are further expected to play a pivotal role in areas such as, high-temperature plants, zero-emission pumps and diesel engines which boost the development of engineering ceramic products. Market growth will be further spurred by stringent environmental legislation relating to mandatory fitment of exhaust catalysts in all automobiles, particularly in developed markets of Europe and US. With Euro 6 legislation expected to be implemented by 2013, demand for filters used in heavy-duty diesel engine exhausts would grow substantially. In addition, low-emission zones established in various European cities, will translate into additional sales of ceramic exhaust filters. In addition to diesel particulate...
filters, ceramic filters are increasingly utilized in various aggressive environments, including filters for hot gas streams in power stations, filters for molten metals, ceramic membranes for micro-filtration in food drinks, incinerators, petrochemicals and other industrial units. While demand for ceramic hot glass filters is expected to remain moderate, ceramic membrane demand is expected to witness higher growth.

Japan represents the largest regional market for advanced ceramics worldwide, with a history spanning well over three decades, as stated by the new market research report on Advanced Ceramics. The field of materials is one of the most important research areas in Japan, and advanced ceramics has always been given a high priority in research and development. Japan is also the largest producer of electronic devices such as mobile phones, pagers, and electronic gaming systems globally, which automatically makes it a potential-laden market for advanced ceramics that find application in such devices. The Asian markets of China, India, South Korea, Taiwan and Thailand promise substantial growth potential at a robust pace of about 8% through 2018. In particular, China emerged as the world’s largest exporter of advanced ceramics, specifically to the US market. The Chinese advanced ceramics market is witnessing significant growth, attributed to abundant chemicals and metallurgical base and governmental initiatives for development of the market.

By product, Monolithic Ceramics, which is the largest market segment, will continue to sustain its leadership position in the long term, primarily driven by rising usage in the medical sector. In the long-term, CMC or Ceramic Matrix Composites will witness rapid growth over the years, expanding at a strong CAGR of 9.8% through 2018, prompted by the growing usage in high temperature applications and those involving high rates of corrosion. CMCs reinforced with carbon nanotubes will also contribute to the overall demand growth.


The research report titled “Advanced Ceramics: A Global Strategic Business Report” announced by Global Industry Analysts Inc., provides a comprehensive review of the advanced ceramics markets, product and raw materials overview, emerging applications, recession trends, key growth drivers, recent industry activity, product/technology innovations and profiles of major/niche global as well as regional market participants. The report provides annual sales estimates and projections for advanced ceramics market for the years 2010 through 2018 for major geographic markets including the US, Canada, Japan, Europe, Asia-Pacific, Middle East and Latin America. Key product segments analyzed include Monolithic Ceramics, Coatings, and Matrix Composites. The report also analyzes the market by major end-use sectors including Electronic, Electrical, Machinery, Transportation, Chemicals, and Others. A six-year (2004-2009) historic analysis is also provided for additional perspective.

For more details about this comprehensive market research report, please visit – http://www.strategyr.com/Advanced_Ceramics_Market_Report.asp

About Global Industry Analysts, Inc.
Global Industry Analysts, Inc. (GIA) is a leading publisher of off-the-shelf market research. Founded in 1987, the company currently employs over 800 people worldwide. Annually, GIA publishes more than 1300 full-scale research reports and analyzes 40,000+ market and technology trends while monitoring more than 126,000
Companies worldwide. Serving over 9500 clients in 27 countries, GIA is recognized today, as one of the world's largest and reputed market research firms.

Follow us on LinkedIn

Global Industry Analysts, Inc.  
Telephone: 408-528-9966  
Fax: 408-528-9977  
Email: press(at)StrategyR(dot)com  

###
Contact Information
Public Relations
Global Industry Analysts, Inc.
(408) 528-9966

Online Web 2.0 Version
You can read the online version of this press release here.