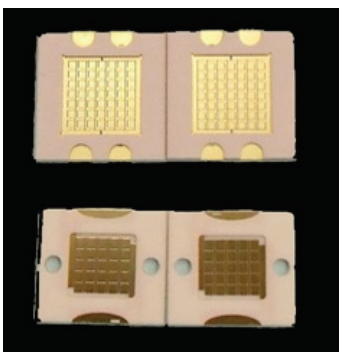
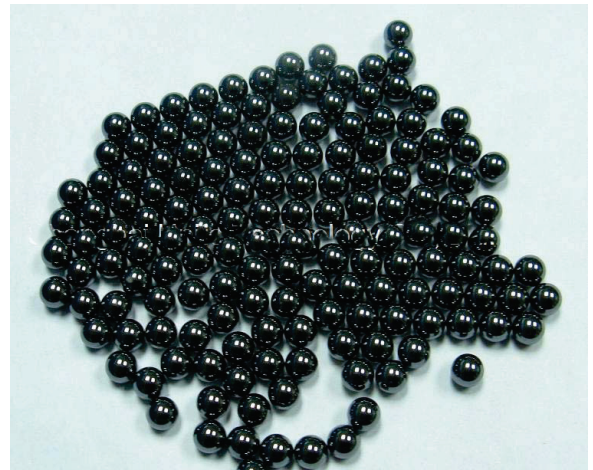


ADVANCED TECHNICAL CERAMICS

Over the years, ceramic materials have been improved with even better thermal and toughness properties. It is high resistance to wear and tear as compare with most of the materials today. It helps in reducing down time and the overall cost of operation. Due to its high thermal conductivity properties, ceramics are also made into substrates for electrical circuitries that handle high power electrical load. We have the advanced processes that made DBC (Direct Bonded Copper) and DPC (Direct Plated Copper, thin film technologies) ceramic substrates.

Xellatech based its manufacturing facilities in Taiwan and mainland China to leverage on the strength of Taiwanese quality management so as to produce and deliver high performance, quality and price competitive products. Advanced and computerised processes were developed over the years, high precision machines and measuring equipment were deployed to achieve the required quality, reliability and specifications as required by our customers.

Xellatech continues to work closely with customers and suppliers to ensure that the products meet the customers' expectations. From aerospace to electronics, medical to defence we can provide ceramic products in an array of industries and market sectors.



ADVANCED TECHNICAL CERAMICS



With sintered alumina as base, many other types of ceramic materials have been developed. These advanced ceramics are classified according to their applications, specifically, the functional (electro ceramics) and the structural (engineering ceramics).

Materials:

- Alumina (Al_2O_3): 92%, 95%, 99%, 99.7%
- Silicon Carbide (SiC)
- Silicon Nitride (Si_3N_4)
- Zirconia (ZrO_2)
- Aluminum Nitride (AlN)
- Others:
(ZTA, MACOR, Mollite, Porous Ceramics)

General Properties:

- High reliability and thermal stability
- High density and excellent mechanical properties
- Non-magnetism
- Excellent corrosion and wear resistance
- Self-Lubricating and Self-Cleaning

Forming Technologies:

- Cold/Hot isostatic pressing – CIP/HIP
- Injection moulding pressing
- Dry pressing
- Hot pressing
- CNC Machining



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