Silicon Wafers Market Analysis: By Wafer Size (>200mm, 200mm, 300mm, 450mm); By Technology Node (Telecommunications, Consumer Electronics, Automotive, Healthcare and Others) - With Forecast (2016-2021)

Description:

Silicon wafers are vital components used in the manufacture of various semiconductor components. A silicon wafer is essentially a very thin slice of semiconductor which is then used to create circuits and electronic devices such as integrated circuits, sensors, MEMS, solar cells and so on. Silicon wafer is made from a silicon ingot.

One of the main factors driving the overall semiconductor industry is consolidation. The growing demand for technologically advanced devices is furthering the growth of the silicon wafer market. This is owing to the fact that they are small in size, consume lesser power, light in weight, among several other benefits. These attributes makes silicon wafers suitable for use in a myriad of devices ranging from mobile phones and tablets to electronic components used in automobiles and medical equipment.

Silicon wafers can be made to have different dimensions. Currently silicon wafers are manufactured to have a diameter of 300mm and below. There is a need for increasing the diameter of silicon wafers to 450 mm. However, this would require a sizeable amount of investment and is one of the factors challenging the growth of this market. Some of the products available in the market include epitaxial wafers, polished wafers and non-polished wafers. The availability of alternatives to silicon wafers is another factor that could potentially impact this market. Increasing cost of raw materials required for the manufacture of silicon wafers are driving manufacturers towards reclaim technologies.

This extremely mature and established market with continue to witness growth throughout the forecast period.

The Silicon Wafers market can be segmented on the basis of wafer size <200 mm, 200 mm, 300 mm and 450 mm

In terms of applications, the Silicon Wafers market has been segmented across the following Consumer Electronics, Automotive, Healthcare, Telecommunications and Others

Asia Pacific accounts for the largest share of this market and will maintain the same position till the end of the forecast period. The market has been segmented based on the following geographies North America, South America, APAC, Europe, Middle East and Africa

One key growth strategy being adopted by companies in this market is mergers and acquisitions. This will result in a change in the complete ecosystem of the silicon wafer market. Following are just a few of the companies that are operating in the silicon wafers market.

Siltronic, SUMCO, LG Siltron and Shin-Etsu Silicon

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