

**TEHCET Group**

a Techcet CA, LLC. Company

Rancho Santa Fe, CA 92067

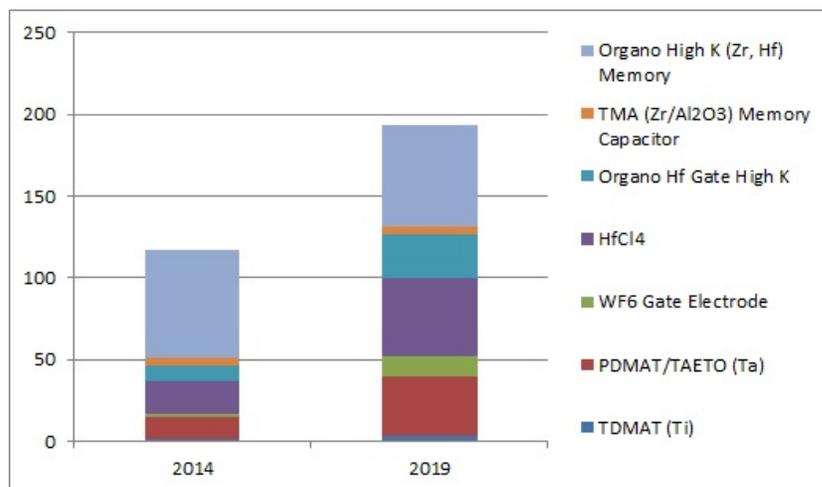
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November 18, 2014

**Critical Materials Market Chain Info:
Get Detailed Info on Critical Materials****Overview****ALD/CVD High K and Metal Precursors**

The market for high- κ CVD and ALD organometallic (OM) precursors continues to be on the rise, expected to grow by ~40% over the next 5 years. Leading-edge capacitors, gate dielectrics and gate electrodes as well as CVD interconnect materials (barrier materials for tungsten and copper) are of keen interest because of the high growth potential associated with the 32/28/20nm (last planar logic transistors), 22/16/14nm (first FinFET logic transistors), future logic technology nodes, as well as advanced memories.

Front End of Line High K and Metal CVD/ALD Precursor Revenues Forecast

The combined revenues for all high- κ and metal precursors (inorganic and organic) used for front end of line (pre-interconnect) device fabrication of logic and memory is was an estimated \$94M in 2013, approaching \$190M by 2019.

The major IC fab suppliers have already secured specific customers. For example, the five leading materials suppliers to IC fabs by revenue for the organometallic precursors include Adeka, UPChem, Air Liquide, Dow Chemical, Air Products & Chemicals and ATMI (Entegris).

DISCOUNT - LIMITED TIME ONLY!

For a limited time only, use the coupon code "**ALD112014**", for a preferred discount through December 5th, 2014.

"Materials innovation is not dead"

- *Lita Shon-Roy, President/CEO
of Techcet Group*



"Even before the 2008 recession, materials development had started to slow down as it became clear that many materials of interest had very low volume potential relative to the expense that was required to do proof of concept testing. Suppliers started to increase pricing, as opportunities for high ASP materials shrank. This tempered the interest in new materials development, and everyone in the industry came to the realization that costs must be reduced in order to continue to stay alive", she added.

The increase in interest in patterning materials and 3-D devices is driving the materials market forward. In addition, the increase in trailing edge devices which support consumer electronics and the internet of things will ensure that trailing edge devices will maintain or even grow in revenues over the coming years. For more info on TECHCET's ALD/CVD High K and Metal Precursors, [CLICK HERE!](#)

Sincerely,

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