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# Quartz Crucible & Diamond Wire Analysis for PV (2009~2016F)

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## Abstracts

Due to the recent depression and oversupply in the PV market, module prices have decreased by more than 30%. With the downward trend in module prices, there has been a lot of effort to develop raw materials with improved performance and low cost technologies.

This report provides technology overview, company trends, and market forecasts of quartz crucibles for growing ingots for solar cells and diamond wires for wafer slicing among a variety of raw materials.

Recently, the recent R&D has focused on quartz crucibles without impurities, which hinder ingot growth, and many surface coating technologies to prevent oxygen contained in quartz from being leaked to the outside. The existing slicing process using slurries containing abrasives causes many problems. It, for instance, is hard to control the properties of slurries, takes a long time, and causes environmental contamination, generating a large amount of waste materials. For these reasons, there has been a growing trend toward adoption of diamond wires wherein abrasives are attached to wires especially in Japan.

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Quartz crucible manufacturing process and technology overview

Analysis of product development, manufacturing capacity, production, prices and costs of 14 manufacturers

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Global quartz crucible market trend (2009~2016F)

Feasibility study for constructing quartz crucible production plants

Part 2. Diamond wire

Diamond wire manufacturing process and technology overview

Analysis of product development, manufacturing capacity, production, prices and costs of 11 manufacturers

Global diamond wire market trend (2009~2016F)

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