

# Metals Pastes for Solar Cells: Technology Research Trend and Market Forecast

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# Abstracts

Metal pastes are one of the key components that affect solar cell efficiency. Especially, front electrodes are known to have the greatest influence on solar cell efficiency. Consequentially, there is a very high entry barrier in the front electrode market. Front electrode paste manufacturers are falling behind top tier companies in terms of performance. They are also poor records in launching new products. Accordingly, the front electrode market is still being dominated by Top 2 companies, Heraeus and DuPont.

In the case of the rear electrode market, where there is a relative low entry barrier, it is becoming Red Ocean??with market entry of numerous companies.

To gain the upper hand in the metal paste market, multi-faceted analysis is necessary. This report provides in-depth analysis based on classification into markets, technologies, and prices.

### Section I: market analysis

Analysis of metal paste suppliers of major Chinese solar cell manufacturers (Front Ag, Rear Ag, Rear Al)

Forecast of global and major 8 metal paste markets (based on demand, and market revenue)

### Section II: Technology and research trend



Analysis of patent trends of Top 3 companies (DuPont, Heraeus, Ferro)

New product launch trend

Trend in research on metal pastes for solar cells

Trend in research on metal pastes for high efficiency solar cells

Major business trend

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