



DuPont™ Solamet®

photovoltaic metallizations

This represents the product overview of DuPont Microcircuit Materials metallization offerings for crystalline silicon (c-Si) and thin film solar cells. Many more products and customer formulations are available depending on specific application. Please contact your local DuPont Representative for further details.

Fired-on compositions for c-Si applications

Application	Metal	Product Code	Comments
Front side contact	Ag	PV17A	High efficiency, excellent solderability, low laydown
Front side contact	Ag	PV17D	New – High efficiency, excellent solderability, very low contact resistance
Front side contact	Ag	PV17F	New – High efficiency, excellent solderability, highest aspect ratio
Front side contact	Ag	PVD2A	Second Layer Double print paste. Highest conductivity, excellent solderability
Front side contact	Ag	PV173	Pb-free*, high adhesion, high efficiency
Back side contact	Ag	PV51G	New – Tabbing silver, Pb-free*, low laydown, lowest Ag content, compatible with rear side Al metallizations
Back side contact	Ag	PV51M	New – Tabbing silver, Pb-free*, low laydown, low Ag content
Back Side Contact and Via Fill	Ag	PV701	Via fill paste and p-contact for MWT cell designs

*"Lead free" as used herein means that lead or cadmium is not an intentional ingredient in and is not intentionally added to the referenced products. Trace amounts however may be present.
All our products are Cd free.



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Air-dried compositions for thin film PV applications

Application	Metal	Product Code	Comments
Front side contact	Ag	PV412	Second generation front side. Excellent adhesion to TCO, fine line resolution, good conductivity and lower contact resistance
Front side contact	Ag	PV410	First generation front side grid and bus bar. Good adhesion to TCO, fine line resolution, high conductivity and low contact resistance
Front side contact	Ag	PV414	Front side grid and bus bar suitable for rotary screen printing
Front side contact	Ag	PV416	New – Improved front side Ag, fine line capability <100µm, highest as printed conductivity
Rear side contact	C	PV480	For CdTe cells
Solderable contact	Ag/Cu	PV430	Solderable, compatible with PV410

For more information on Solamet® or other DuPont Photovoltaic Solutions, please contact your local representative:

Japan

Du Pont Kubushiki Kaisha
Sanno Park Tower
11-1, Nagata-cho, 2-chome
Chiyoda-ku, Tokyo, 100-6111
Tel +81 3 5521 8650
Fax +81 3 5521 2704

Taiwan

DuPont Taiwan Limited
45, Hsing-pong Road
Taoyuan, 330
Tel +886 3 377 3660
Fax +886 3 377 0479

USA

DuPont Microcircuit Materials
14 TW Alexander Drive
Research Triangle Park, NC 27709
Tel +1 800 284 3382 (calls within USA)
Tel +1 919 248 5188 (calls outside USA)
Fax +1 919 248 5770

Central Sales Office for Europe, the Middle East, Pakistan and Africa

Du Pont (UK) Limited
DuPont Microcircuit Materials
Bristol Business Park
Coldharbour Lane, Frenchay
Bristol, BS16 1QD
UK
Tel +44 117 931 3191
Fax +44 117 931 3131
E-mail mcm.sales@gbr.dupont.com

China

DuPont China Holding Company Limited
Bldg. 11, 399 Keyuan Road
Zhangjiang Hi-Tech Park
Pudong New District
Shanghai 201203
Tel +86 400 8851 888
Fax +86 21 3862 2890

mcm.dupont.com
photovoltaics.dupont.com

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Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement", H-51459 or H-50102-2.

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