



**PRESS RELEASE
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Hot Melt Ink Technology Speeds Solar Cell Production

VISTA, CA, U.S.A.—April 17, 2009—Ferro Electronic Material Systems features its patented Hot Melt ink technology at the PV America Show. This specially designed silver conductor system eliminates the drying process of conventional pastes, resulting in higher throughput rates, increased productivity, improved yields, and reduced volatile organic compounds (VOCs).

Hot melt inks are designed for use with silicon nitride ARCs, as well as rear silver contacts and rear aluminum back surface coatings. Solid at room temperature, Hot Melt pastes are resistively heated above their melting points to screen print similarly to conventional thick film pastes. Unlike conventional pastes, they instantly re-solidify when transferred to the solar cell surface and are ready for the next printing sequence. This property also improves the aspect ratio of printed grid lines and reduces shading, contributing to a higher cell efficiency. Fired line resolution is 80 µm wide x 30 µm thick, helping improve relative efficiency of the finished cell by up to 5%.

About Ferro

Ferro Electronic Material Systems has locations in Vista, CA; Penn Yan and Niagara Falls, NY; South Plainfield, NJ; Haverhill, United Kingdom; Uden, The Netherlands; Hanau, Germany; Tsukuba, Japan; and Suzhou, China. Its products include metal pastes and powders for solar energy applications, advanced packaging and thick film conductors; chemical mechanical planarization (CMP) slurries for semiconductors and advanced integrated circuits; dielectrics used in chip components and multilayer ceramic capacitors (MLCC); and surface finishing materials for LCD, hard disk, and ophthalmic polishing.

Ferro Corporation is a leading global supplier of technology-based performance materials for manufacturers. Ferro materials enhance the performance of products in a variety of end markets, including electronics, telecommunications, pharmaceuticals, building and renovation, appliances, automotive, household furnishings, and industrial products. Headquartered in Cleveland, Ohio, the Company has approximately 6,700 employees globally and reported sales of \$2.0 billion in 2006. Additional information about the Company can be found at www.ferro.com.