



BRIECHLE-FERNANDEZ
MARKETING SERVICES, INC.
265 Industrial Way West, Ste. 7
Eatontown, NJ 07724-2213
Phone: (732) 982-8222 • Fax: (732) 982-8223

NEWS RELEASE

Client: Gelest

Media contact: Mike Rubin
732-982-8238
mike.rubin@bfmarketing.com

GELEST INTRODUCES COBALT TRICARBONYL NITROSYL (*INCO032*) AS A LOW TEMPERATURE CVD PRECURSOR FOR SEMICONDUCTOR APPLICATIONS

MORRISVILLE, Pa. (December 2, 2014) - Gelest Inc., a leading innovator, manufacturer and supplier of organosilicon compounds, metal-organic compounds and silicones to the global marketplace, has extended its product offering to include **Cobalt Tricarbonyl Nitrosyl (*Gelest Product Code INCO032*)**, which is produced in the company's newly commissioned facility in Morrisville, Pennsylvania.

The growth of thin films via chemical vapor deposition (CVD) is an industrially significant process with a wide array of applications, notably in microelectronic device fabrication.

Chemical vapor deposition (CVD) is carried out by passing a volatilized precursor (such as a silane, organometallic or metal coordination complex) over a heated substrate.

Cobalt Tricarbonyl Nitrosyl presents clear advantages versus other available precursors in CVD deposition processes that include high volatility (vapor pressure 26 Torr at 0°C and 100 Torr at 25°C), is available in liquid form, and exhibits good stability (decomposition temperature >66°C) and low toxicity. Furthermore, Co is in an oxidation state of zero in this compound, which implies that metal-ligand bonds are easily cleaved to yield pure metal films, and only CO + NO as byproducts.

To obtain a copy of Gelest's new reference piece, "Cobalt Tricarbonyl Nitrosyl," or to engage in discussions to explore solutions for your new product development initiatives, please contact: Gabrielle Lockwood, Sales & Marketing Associate, at 215-547-1015 or glockwood@gelest.com.

About Gelest

Gelest, Inc., headquartered in Morrisville, Pennsylvania, is recognized worldwide as an innovator, manufacturer and supplier of commercial and research quantities of organosilicon compounds, metal-organic compounds and silicones. Gelest serves advanced technology markets through a materials science-driven approach. The company provides focused technical development and application support for semiconductors, optical materials, pharmaceutical synthesis, diagnostics and separation science, and specialty polymeric materials: "Gelest – Enabling Your Technology."

#

Gelest, Inc.
Enabling your Technology

Manufacturers of Silanes, Silicones & Metal-Organics
11 E. Steel Road, Morrisville, Pennsylvania 19067
Tel: 215-547-1015 Fax: 215-547-2484