



ISO 9001 REGISTERED COMPANY
www.durexindustries.com

DUREX Thermal News *Summer 2014*

closing the loop on thermal solutions

Welcome to the Durex Industries Summer 2014 Thermal News. This newsletter reports on business, technology and employee events that benefit our customers and employees.

Durex Industries Asia PTE. LTD.

Durex' thermal solution business in the Asia Pacific regions have been growing, and with this growth, Durex Industries Asia PTE. LTD. was established as a Singapore business entity to further support business with Multinational Corporations (MNC).

Jim Kreisel, Durex Industries Director of Strategic Business Development, stated that the growth of Durex' Asian business has been exciting. During the last couple years, Durex has worked hard developing new technologies, such as aluminum nitride ceramic thermal solutions and the SENTINEL™ and HALO™ semiconductor line heating solutions. Our ability to develop thermal solutions beyond our competitors' capabilities continues to create many opportunities with MNCs.

Durex Asia's initial focus is to provide engineering and logistics services to Southeast Asia and China Original Equipment Manufacturers. Based in Singapore, the business will also be responsible for establishing business development partnerships throughout the entire Asia Pacific region. ■

Joseph Ngo Cheng Yong, Regional Sales Manager, Asia and Pacific Rim

In April 2014, Joseph Ngo joined Durex as Regional Sales Manager of Durex Industries Asia. Joseph comes to Durex with over 20 years of thermal solution and instrumentation experience working with Japanese and American MNCs.

In the Asia Pacific regions, Joseph has successfully developed strategic technical and business relationships in the petrochemical, life sciences, semiconductor, pharmaceutical, and food industries.

Joseph, a native Singaporean, holds a BBA Marketing degree from MacQuarie University (Australia). He is married to HweeSuan and has 2 young daughters. ■



Joseph Ngo,
Durex Industries Asia

Contact Joseph at:

Durex Industries Asia PTE. LTD.
116 Clementi Street 13, #10-98
Singapore 120116
telephone: +65 97718082



"Durex Industries continues to be an industry leader by pushing the limits of thermal technology."
heaters • sensors • controls • process systems

HALO™ and SENTINEL™ Gas and Pump Line Heating Systems

At SEMICON West, Moscone Center, San Francisco CA, July 8-10, 2014,

Durex Industries will be introducing the HALO Temperature Controller. The HALO Temperature Controller complements the SENTINEL Heaters that were introduced in 2013. In combination, HALO and SENTINEL represent a convergence of thermal technologies that address challenging semiconductor equipment and processing requirements.

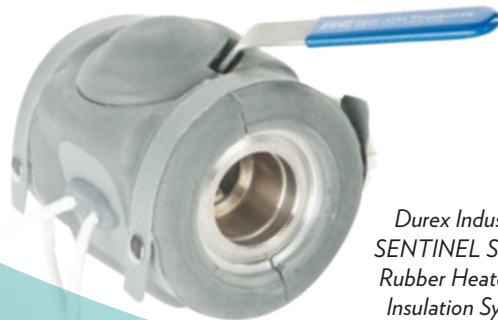
HALO Temperature Controller

Durex Industries' HALO process temperature controllers are an integrated thermal solution combining temperature control, independent high limit control, heater current sensing, visual alarm indication, high/low temperature alarm, digital I/O, Graphical User Interface (GUI), and RS 485/Modbus® communications. The HALO controller represents a new convergence of technologies that improves thermal system performance while substantially reducing costs of ownership.

The HALO Temperature Controller and SENTINEL Gas and Pump Line Heaters, are a superior thermal solution for semiconductor applications. Internally, one HALO temperature controller can monitor the performance and control the temperature of multiple heaters with up to 10 amp resistive loads. Independent current sensor monitoring of each heater provides engineers with a visual HALO indication of a heater or wiring failure.

SENTINEL Heater and Insulation System

Durex Industries' SENTINEL Heater and Insulation Systems is a turnkey thermal solution for PECVD, LPCVD, MOCVD, ALD, plasma etch and other vacuum applications. Low vapor pressure gas delivery lines need to be held at a temperature higher than the gas vaporization point in order to prevent condensation that will affect process yields. Vacuum exhaust lines remove the vapor phase bi-products from the semiconductor process. Sublimation occurs when the vapor phase materials cool in a vacuum line. By heating the forelines, vacuum lines, and vacuum pumps, sublimation of ammonium chloride (NH₄Cl), nitrides (NH₄) and other potentially hazardous materials can be substantially reduced.



Durex Industries
SENTINEL Silicone
Rubber Heater and
Insulation System



Durex Industries HALO
Temperature Controller and
Graphical User Interface

ESL Graduation English as a Second Language



Durex' Human Resource team, in cooperation with McHenry County College, is providing continuing education classes that are valuable for our business and employees' personal growth. Employees have the opportunity to attend Spanish/English, Leadership, Supervisory, Customer Service and Thermal Technology classes.

Pictured is Lupita Hernandez (Durex Industries, ESL Instructor) and the first graduating Spanish/English class. Three more advanced ESL classes are scheduled. The ESL classes are practical and give employees skills ranging from basic English to those needed in a manufacturing and business environment. Congratulations to Alicia Luna, Anali Sanchez, Angela Burgos, Emilia Cardenas, Areli Sanchez, Fabiola Sanchez, Guadalupe Lopez, Guadalupe Vazquez, Hermilia Zesati Judith Balleno, Maria D. Hernandez, Maria Lopez, Maria Ramirez, and Silvia Sanchez. ■

**Contact Durex Industries
for all your heater,
sensor and control
requirements.**



**For more information, visit our website!
www.durexindustries.com**

190 Detroit St., Cary, Illinois 60013
847-639-5600
sales@durexindustries.com