

NEWS RELEASE

NSG Group to Invest in a Lead-acid Battery Separator Joint Venture

TOKYO, July 13, 2017 – NSG Group today announced that it has reached an agreement with ENTEK International based in the U.S./U.K. and the Indonesia-based Separindo to invest in PT ENTEK Separindo Asia, a joint venture established by the two companies for manufacturing and sales of polyethylene (PE) separators for lead-acid batteries.

In the rapidly expanding Asian market for automotive flooded lead acid batteries, the demand for Idling Start and Stop (ISS) batteries is expected to grow significantly due to the needs for fuel efficiency and the reduction of carbon emission. ENTEK and NSG Group are technology leaders in the ISS batteries for which PE separators play a key role in ensuring the higher battery durability and performance to withstand frequent charge/discharge.

NSG Group's investment in the joint venture company in Indonesia is aimed at upgrading its product supply capability in the expanding Asian market by partnering with ENTEK, the world's leading producer of PE separators, to generate a synergy in sales, manufacturing and research and development.

The joint venture agreement commits the partners to share technology and to integrate their manufacturing efforts for the Asian markets. This strategic alliance to pursue the enhancement of manufacturing technology is part of NSG Group's effort to become a "VA (value-added) Glass Company."



PE separator produced by NSG Group

About ENTEK

For more than 30 years, ENTEK has been an innovator and leading world-wide designer and producer of highly reliable microporous polyethylene battery separators for lead-acid and lithium-ion batteries. Its technology is used in SLI, golf carts and wide range of industrial applications, and are in great demand for products that require high energy or high voltage systems such as secondary batteries in portable devices and as primary batteries in critical systems. ENTEK also manufactures turnkey production Extruder systems, twin-screw extruders, and components. It is a leader in the extrusion of natural fiber-plastic composites (wood decking), pelletizing, custom compounding, specialty sheet lines, and products for other markets including food and medical applications. ENTEK is headquartered in Lebanon, Oregon, with facilities in the United Kingdom. Its products are sold through its sales offices and distributors worldwide. For more information, visit www.entek.com.

About Separindo

Separindo is a leading producer of PE battery separators in Asia. Since it was established in 1995, it has been the sole producer in Indonesia and has a deep understanding of the Asian market. Separindo is headquartered in Jakarta, Indonesia, focusing on markets locally and in Asia's developing countries.

About NSG Group

NSG Group is one of the world's leading manufacturers of glass and glazing systems in three business areas: Architectural; Automotive; and Technical Glass. Architectural supplies glass for architectural and Solar Energy applications. Automotive serves the original equipment, aftermarket replacement and specialized transport glazing markets. Technical Glass products include very thin glass for displays, lenses and light guides for printers and glass fiber, used in battery separators and engine timing belts. Founded in 1918, NSG acquired the leading UK-based glass manufacturer Pilkington plc in June 2006. Today, the Company has combined sales of JPY 580.8 billion, with manufacturing operations around the world and sales in over 100 countries, employing some 27,000 people worldwide. For more information, visit www.nsg.com/en.