



ULTRA-PURIFICATION OF CHEMICALS AT LOW COST

The industrial purification of chemicals through e.g. distillation requires large amounts of energy and/or solvents. An alternative method, developed by TNO, consists of melt crystallisation in combination with the TNO Hydraulic Wash Column (TNO HWC®) and delivers products with purity up to 99,9% in one step and a reduction in energy consumption from 20% up to 90% compared to distillation.

SoliQz B.V. is established to commercialise the TNO HWC® for a broad range solid/liquid separation applications. SoliQz B.V. brings together the proven HWC technology of TNO with the modular plant design and assembly experience of Zeton

15 years of intense technology development at TNO have proven that the TNO HWC® technology works at lab-scale for a wide range of compounds. The technology has been successfully scaled-up to pilot and industrial scale. By creating a dedicated organization around the HWC technology the Parties see many more opportunities in the purification of bulk chemicals, bio-based monomers and polymers as well as broad range of specialty chemicals and pharmaceutical intermediates.



Example of an industrial scale melt crystallizer (back) and Hydraulic wash column (front)

SoliQz B.V. will provide its customers with support and equipment throughout the different phases of the technology implementation. Customers with a demand for high purity solid/liquid separation can come to SoliQz for a feasibility study. Once the feasibility is proven, pilot trials can be executed at the new SoliQz plant (to be completed in Q4 2014). Upon successful pilot trials, SoliQz will provide technical/process support as well as the design and construction of dedicated plant and equipment. The formal transfer of the TNO HWC[®] technology to SoliQz B.V. is underway and will be completed by end of July 2014.

Comments from Victor Elsendoorn, General Manager of TNO Companies: *“ We are very proud to bring yet another valuable TNO technology to market via SoliQz B.V. Doing this in a dedicated and independent start-up company increases the focus on the TNO HWC[®] technology and should lead to better results in commercialization. We are also happy to have appointed Nicolaas Viets, with his broad experience in the chemicals industry, to lead this effort.”*

Comments from Johan ter Harmsel, Managing Director of Zeton B.V.: *“We see broad opportunities for the concept of bringing together the promising TNO HWC[®] separation/purification process technology from TNO with the global experience in modular design and assembly of pilot plants from Zeton. I am convinced that this formula can be successfully implemented in many projects.”*

Comments from Nicolaas Viets, CEO SoliQz B.V.: *“ I am very excited to lead SoliQz B.V. through this challenging initial period. I engaged in this challenge mainly because of the good prospects in the market and the excellent reputations of TNO as technology developer and Zeton as pilot plant builders. I am convinced that these three elements will contribute to many successful projects at SoliQz”.*

SoliQz B.V. will be present at the upcoming Chemspec Europe exhibition in Budapest on June 18/19th, 2014. You can visit us at stand nr. K22.

For more information please contact us via mail at: press@soliqz.com or via phone: +31 6 51563736. For more details on the operation of the HWC please click [here](#).

The company is based in Delft, the Netherlands and is registered at the Chamber of Commerce in the Netherlands under nr. 59249269.

Delft, June 8th, 2014