
TECHNOLOGICAL OFFER OF BISPHENOL A SYNTHESIS UNIT USING INNOVATIVE DUAL-ZONE REACTORS

ADVANCE BPA Technology

THE OFFER INCLUDES: LICENSE, TECHNICAL DOCUMENTATION, TECHNICAL SUPPORT AND SUPPLIES OF PROMOTED CATALYST

The invention is protected by European patent application EP 3024809 A

The innovative method of bisphenol A synthesis using dual-zone reactors, operated in the ADVANCE BPA technology is distinguished by the following advantages:

- During whole operating cycle the selectivity of the reaction is ca. 97% (over 98% while including isomerization), creating the basis for obtaining low consumption indicators of raw materials (phenol – 0,836 t/t BPA, acetone – 0,265 t/t BPA) and high purity product.
- Increase of ca. 17% of bisphenol A concentration in the reaction and ca. 28% in post-reaction mixture is obtained, which contribute to the low energy consumption of the product separation and purification processes in the ADVANCE BPA process.
- Control of streams of reagents and their concentration and temperature is carried out fully automatically in particular stages of the reaction in order to obtain optimal results.
- The exchange of the exploited catalyst is carried out successively in the following reactors of the synthesis unit without stopping production.

The crucial competitive advantage of our ADVANCE BPA technology, comparing to the others consists in increase of efficiency of production plant and measurable reduction of the unit cost of production, while keeping the highest quality parameters of the product.

**Contact: MEXEO Institute of Technology, Kędzierzyn-Koźle, Poland
dr hab. inż. Wiesław Hreczuch, tel. +48 501097905; mexeo@mexeo.pl**