Styrene by TOTAL Fina/Badger Process

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Abstract

Styrene consumption in the United States in 2017 was roughly 3.3 million metric tons/yr. Styrene is expected to grow at an average annual consumption rate of 0.8% during the time period 2017–19. In this review, we look at the production of styrene using Badger/TOTAL technology.

This review updates the process of Badger/Fina (legacy partner) technology that was presented in IHS Chemical (formerly SRI Consulting) PEP Report 33C, Styrene, published in March 1993. The focus of this review includes capital and production costs for 500,000 metric tons/yr of styrene product by a stand-alone plant. An interactive module is included—the iPEP Navigator for styrene—which provides a snapshot of the process economics and allows the user to select the units and global region of interest.
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