INEOS Technologies

Technologies

Acrylonitrile

INEOS Technologies acrylonitrile process technology is the established world leader, used in over 95% of the world's acrylonitrile plants. Ineos Technologies licence this technology and also manufactures and markets world leading Acrylonitrile catalysts. The process is recognised as delivering highest conversions of raw materials to useful products, while maintaining on-stream plant reliability factors in excess of 98%. INEOS Technologies sets the standard for safe and low cost production of acrylonitrile and co-products.

Acknowledging the significance of the technology, the American Chemical Society designated INEOS' "Sohio Acrylonitrile Process" a National Historic Chemical Landmark at INEOS' US headquarters in League City, Texas, on November 14, 2007. Indeed our knowledge and technical support is provided by experts drawing upon over 50 years of global industry experience.

This extensive experience and understanding makes INEOS the leader in designing reactor/catalyst systems with better yields, fewer shutdowns, and fewer environmental problems than any other technology supplier.

Catalyst

INEOS Technologies manufactures and markets catalysts used in the production of acrylonitrile; in support of INEOS' licensed acrylonitrile process.

Since the introduction of the revolutionary fluid-bed catalyst system for the manufacture of acrylonitrile in 1960, INEOS has developed and commercialised numerous improved catalyst formulations. These catalyst improvements have improved yields and efficiencies.

INEOS Technologies continues this long and successful history of catalyst research and developments and many licensees have been able to achieve increased plant capacity through a simple catalyst change-out, without the need for reactor or other hardware modifications.

Primary attributes of INEOS Technologies' Acrylonitrile Catalyst technology include:

- High AN yields
- High co-product HCN yield
- High propylene conversion
- Over 50 years of demonstrated R&D success
- New catalyst developments compatible with existing SOHIO-design AN plants
- Stable performance and operational flexibility