

Technologies

Maleic Anhydride

INEOS Technologies is the recognized world leader in fluid-bed reactor technology for the production of maleic anhydride. Since the 1980s, through its Amoco and BP/Sohio parentage, INEOS' maleic anhydride fluid-bed reactor and catalyst technologies have been utilized in plants ranging from 15 ktpa to greater than 80 ktpa; demonstrating safe, stable and efficient operating performance.

The INEOS fluid-bed maleic anhydride technology offers robust, proven technology using extremely efficient catalyst resulting in low cost, high reliability operation. The advantages of INEOS' fluid-bed MAN technology will translate into a process offering the lowest overall operating cost, higher reliability, and premium product purity.

The INEOS Maleic Anhydride Technology is feedstock and energy efficient. It is a net exporter of steam. The process technology allows for a wide variance in operation and/or design. Typical turndown capability is 60% of the design butane feed rate. Accordingly, it may be possible to stage capital investments to respond to expected market demand changes.

As the world's largest and preeminent licensor of petrochemical fluid-bed reactor technology, INEOS maintains world-class research and development efforts in the areas of catalysis, process chemistry, and engineering design.

Catalyst

INEOS Technologies offers both fixed and fluid bed catalysts for the production of maleic anhydride. Today, INEOS Technologies offers FV-200 and FV-300 for fluid-bed producers, and offers MANCAT-VI and MANCAT-VII for fixed-bed maleic anhydride producers.

INEOS produces its maleic anhydride catalysts in its wholly-owned and operated manufacturing facility, and markets the catalysts to producers worldwide.

The catalyst offering includes the following attributes:

- In the case of fluid-bed catalyst, and with the proper addition of make-up catalyst, no need for periodic plant shutdowns associated with catalyst change-outs and lengthy reactor loading/unloading activities
- High, stable butane-to-MAN yields
- Over 30 years of demonstrated R&D and commercial success in the industry, including ongoing R&D activities to identify improved catalysts that will offer customers enhanced product yields
- Ongoing technical support to customers worldwide