
Technology Fact Sheet



For Further Information Contact:
Media: Jan Sieving +1 832 513 1111

For Immediate Release
January 25, 2011

FCFC using Polimeri Europa/Lummus Cumene and Phenol Technologies

- Owner :** Formosa Chemicals and Fibre Corporation (FCFC)
- Location:** Ningbo, China
- Process:** Cumene and Phenol
- Capacity:** 450,000 metric tonnes per annum of cumene
300,000 metric tonnes per annum of phenol
- Technology:** Polimeri/Lummus
- Description:** The cumene process uses Polimeri Europa's highly active, selective, and robust PBE-1 zeolite catalyst for the alkylation of benzene with propylene to produce high purity cumene. This catalyst is non-corrosive, regenerable, and environmentally friendly. Compared to other zeolite-based liquid-phase processes, the Polimeri Europa/Lummus cumene process attains higher product yield and requires lower investment.
- The phenol process is based on the oxidation of cumene to cumene hydroperoxide and its subsequent decomposition to phenol and acetone, which offers greater safety, higher yields and better operability than competing processes. The Polimeri Europa/Lummus process produces the highest quality phenol, suitable for polycarbonate and resin production. It can also co-produce pharmaceutical-grade acetone and alphas-methylstyrene (AMS). Technology is available to recycle surplus acetone for the production of isopropyl alcohol.
- CB&I Advantage:** The Polimeri Europa/Lummus cumene process consumes no chemicals other than feedstocks and creates no hazardous effluents. The Polimeri Europa/Lummus phenol process utilizes the latest control systems and operates smoothly, at high yields and low cost, with flexibility and minimal effect on the environment. Maximum heat integration is provided to minimize energy input.

About CB&I

[CB&I](#) designs, engineers and constructs some of the world's largest energy infrastructure projects, providing a [full spectrum of EPC solutions](#) and proven [process technologies](#). Drawing upon more than a [century of experience](#) and the [expertise](#) of approximately 16,000 employees worldwide, CB&I safely and reliably executes more than 600 projects a year through its three business sectors: [CB&I Lummus](#) builds upstream and downstream oil & gas projects, LNG liquefaction and regasification terminals, and a wide range of other energy related projects; [CB&I Steel Plate Structures](#) designs, fabricates and constructs storage tanks and containment vessels and their associated systems for the oil & gas, water & wastewater, mining and nuclear industries; [Lummus Technology](#) capitalizes on more than 2,000 patents and patent applications to provide [process technologies](#), [catalysts](#) and [specialty equipment](#) for petrochemical facilities, oil refineries and gas processing plants. For more information, visit www.CBI.com. If you would like to be added to CB&I's news release email distribution list, visit www.CBI.com/mediacenter/newsreleases.

#