A B S T R A C T

EPOXIDATION CATALYST AND PROCESS

This invention relates to an ethylene oxide catalyst which contains silver and one or more alkali metal promoters supported an a carrier having a crush strength of at least 2.3 kg and a settled packing density of at least about 0.48 kg/litres which comprises first and second alpha alumina components with a first alpha alumina component in the form of particles having a median crystallite size of from 0.4 to 4 µm providing from 95% to 40% of the total weight of alpha alumina in the carrier and a second alpha alumina component generated in situ by a sol-gel process and providing the balance of the alpha alumina in the carrier. Titania is optionally added to the carrier.