

ABSTRACT

In a process for producing alkylene carbonate by reacting alkylene oxide and carbon dioxide gas, the carbon dioxide gas as starting carbon dioxide gas is used, which carbon dioxide gas has been recovered from at least a part of the oxidation reaction waste gas left after recovery of ethylene oxide from the oxidation reaction gas in gas phase oxidation of ethylene and which has a purity of not less than 99.5 vol%. According to this process, it is possible to make effective use of carbon dioxide gas, to reduce discharge of the carbon dioxide gas and alkylene oxide used as starting materials, and to produce high-quality alkylene carbonate.