

DEHYDRATION AND PURIFICATION OF ISOPROPYL ALCOHOL
TO AN ULTRADRY AND ULTRAPURE LEVEL

Abstract of the Invention

A method and apparatus for the on-site reprocessing of isopropyl alcohol used in semiconductor manufacturing, to generate an ultradry and ultrapure isopropyl alcohol, produced through a pervaporation step, followed by a two distillation, wherein the first distillation step, an autonomous azeotropic self-stripping distillation column (78) is used to produce an ultradry and partially purified isopropyl alcohol, and in the next distillation step, the isopropyl alcohol is distilled in an overhead product distillation column (164), to produce an ultrapure and ultradry isopropyl alcohol.