

## Phase Behavior of Amine Compound with Fluorosurfactant in Supercritical Carbon Dioxide

원종우, 유기풍, 임종성\*, 장원호, 한갑수  
서강대학교  
(limjs@sogang.ac.kr\*)

Cloud point of the Amine Compound with Fluorosurfactant in Supercritical Carbon Dioxide has been investigated. The amine Compound was used as additives for the supercritical carbon dioxide, because only CO<sub>2</sub> could not remove completely photo resist used for semiconductor manufacturing process. The cloud point is a necessary factor for Supercritical CO<sub>2</sub> Resist Removal (SCORR) process. The cloud points were measured using a high pressure variable-volume view cell. All systems exhibited a lower critical solution temperature phase behavior and became one-phase in carbon dioxide in the range of 313.15 to 353.15 K at less than 40 MPa.