

## 차량용 주요 금속재질 부품의 E85에 대한 영향성 평가 연구

민경일, 임의순\*  
한국석유관리원  
(esyim@kpetro.or.kr\*)

Nowadays, the use of bio-ethanol as the alternative fuel for gasoline is spreading widely for CO<sub>2</sub> reduction, energy security and agricultural development. One of the way of expanding bio-ethanol is the use of the high concentrated bio-ethanol fuel(E85). E85 vehicle has been increased dramatically in the world. but only a few studies about E85 have been carried out by some car manufacturer for exporting vehicles in korea and there is no study of E85 blending and vehicle applicability. Therefore in this study we made E85 by domestic technology and tested durability of metal materials(MFZn, MFZnNi, SUS, Al) used for the fuel systems of gasoline vehicles on the E85 fuels.