

CO Oxidation of Purelyst MD-100



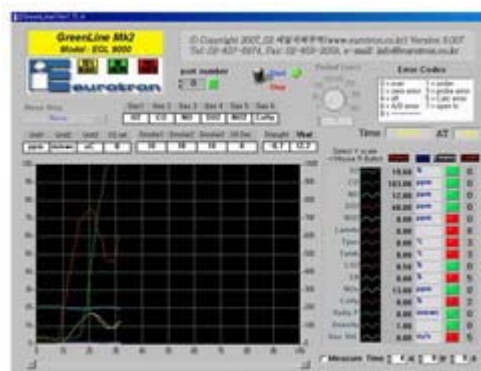
Test Equipment



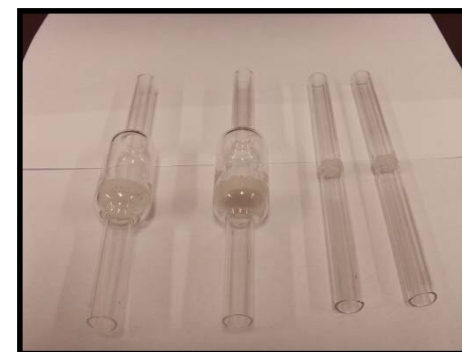
Test equipment



CO analyzer

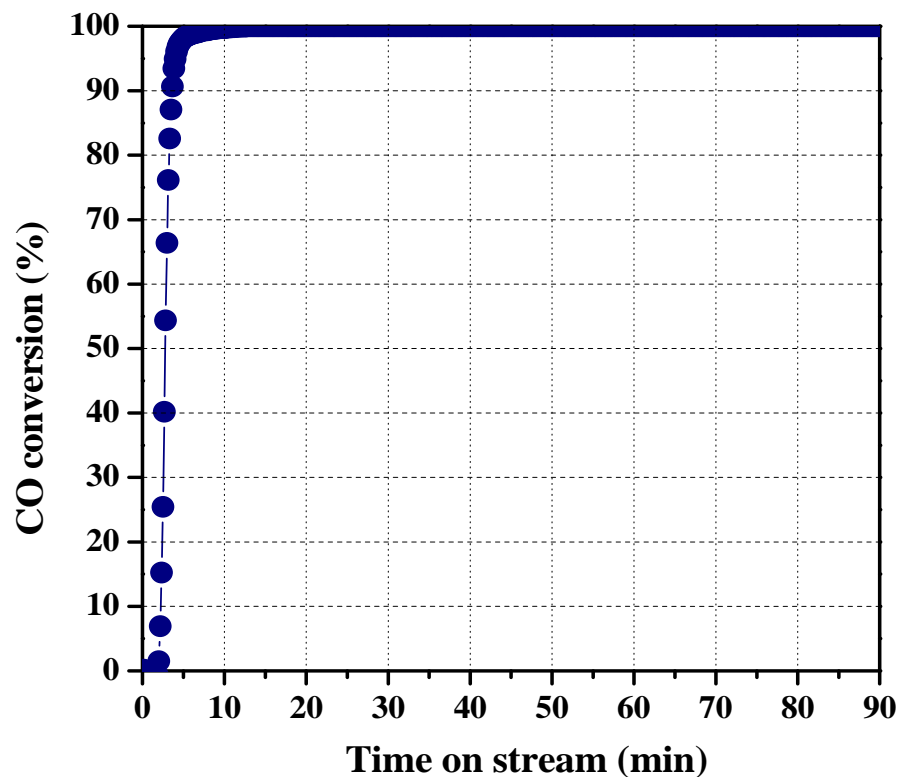


Data acquisition software



Catalyst reactor

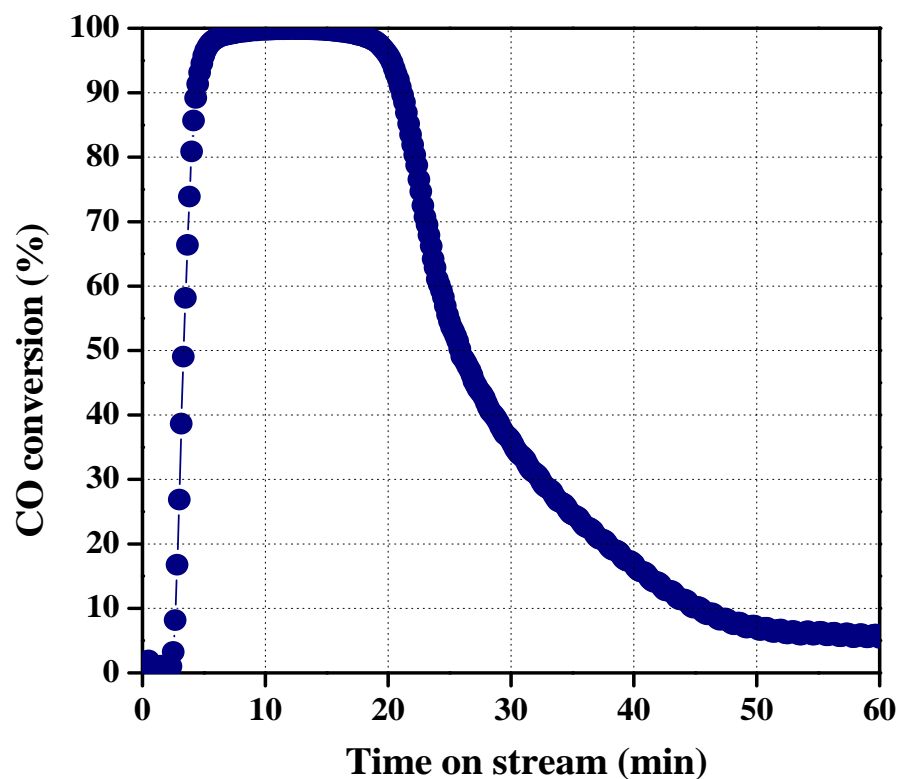
CO Oxidation – Dry Condition



Catalyst	Purelyst MD-100
Catalyst amount	45~106 μm 1 g
Flow rate (SCCM)	300
WHSV (h^{-1})	18,000
Temperature ($^{\circ}\text{C}$)	25
CO Conc. (ppmv)	2,500
H₂O (wt%)	0

Purelyst MD-100 catalyst keeps CO oxidation efficiency at H₂O-free condition.

CO Oxidation – H₂O 1.4 wt%



Catalyst	Purelyst MD-100
Catalyst amount	45~106 μm 1 g
Flow rate (SCCM)	300
WHSV (h ⁻¹)	18,000
Temperature (°C)	25
CO Conc. (ppmv)	2,500
H₂O (wt%)	1.4

As moisture blocks active site of Purelyst MD-100 catalyst at H₂O 1.4 wt% condition, CO oxidation efficiency stiffly decreases from 20 minutes.