56º Congresso Brasileiro de Cerâmica 1º Congresso Latino-Americano de Cerâmica IX Brazilian Symposium on Glass and Related Materials 03 a 06 de junho de 2012, Curitiba, PR, Brasil

17-040

Study of impregnation method and its parameters on Cu/K/Al2O3 system for soot particulate oxidation

Gallo, S.V. (1); Escobar, J.A. (2)

(1) GM-Colmotores; (2) Los Andes University

Catalytic ceramic foam traps were prepared and tested for particulate diesel emission control. Al2O3 ceramic foams were developed through replication method and impregnated with an aqueous solution of catalyst precursor salts, Cu and K, which are active ingredients for soot combustion process. SEM-EDS, FRX, N2 absorption-desorption, TPR and TGA analyses have been carried out in order to evaluate the homogeneity, composition of the catalyst layer and temperature reduction of soot combustion.