

# Characterization of Fly Ashes by Leaching Test

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ABSTRACT:

In addition to pH of leachant, the degree of pozzolan reactions in spherical particles and adsorption/desorption effect on unburnt carbon are important characters, greatly influencing for leaching tests. Especially, the adsorption effect of fly ashes with high surface areas reduce the apparent quantity of leaching to cast doubt on the applicability to environmental impact assessment of the conventional testing method (simple diffusion from monolith model). Thereupon, model is proposed where the three parts of "water-soluble portion", "porous unburnt carbon", and "comparatively low water-solubility particles", each possessing adsorption/desorption properties, with the quantities of the three components varying with elapse of time and partial equilibrium of adsorption and desorption assumed.

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