

MICROWAVE HEATING OF FLY ASH FROM MUNICIPAL WASTE INCINERATOR

**Milota KOVÁČOVÁ¹ – Silvia ČUVANOVÁ¹ – Michal LOVÁS¹ - Štefan
JAKABSKÝ¹ - Cristina LEONELLI² - Paolo VERONESI² – Dino BOCCACCINI²**

¹Institute of Geotechnics, Slovak Academy of Sciences, Watsonova 45, 043 53 Košice, Slovakia,
e-mail: kovacova@saske.sk, cuvanova@saske.sk, lovasm@saske.sk, jakabsky@saske.sk

²University of Modena and Reggio Emilia, Department of Materials and Environmental Engineering,
Via Vignolese 905, 41 100 Modena, Italy, e-mail: leonelli@unimore.it, paolov@unimore.it,
boccaccini@unimo.it

ABSTRACT

The paper is aimed to the research of microwave heating of the fly ash from municipal waste incinerator in Košice. Before heating, two kind of fly ashes (from filter and cyclon) were analysed by XPS method. The samples were heated in single mode furnace. The microwave heating was focused, the local melting of the samples was confirmed. The evolution of the gases was followed during heating.

Key words: fly ash, municipal waste incinerator, microwave heating, power