

# PROPERTIES OF PARTICULATE MATTER EMITTED FROM MANUFACTURING OF CERAMIC PRODUCTS

JAN KONIECZYŃSKI<sup>1</sup>, BOGUSŁAW KOMOSIŃSKI<sup>1</sup>, MICHAŁ ŻELECHOWER<sup>2</sup>

<sup>1</sup> Institute of Environmental Engineering of the Polish Academy of Sciences, Air Protection Division, ul. M. Skłodowskiej-Curie 34, 41-819 Zabrze, Poland

<sup>2</sup> Silesian Technical Institute, Faculty of Material Science and Metallurgy, Department of Material Science, ul. Krasińskiego 8, 40-019 Katowice, Poland

Knowledge on the physicochemical properties of PM emitted from industrial installations is necessary for assessing current state of ambient air and selecting proper methods for preventing suspended PM from degrading the air quality. Similar to many other industries, fast developing ceramic tile industry releases some amounts of PM to the atmosphere. Samples of PM were taken from main technological operations of three tile manufacturing installations, located in three various plants. The collected PM was examined for granular composition, morphology, phase composition and heavy metal content by using instrumental methods.