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ALUMINIUM ANODIZING SLUDGE AS A RAW MATERIAL FOR THE PREPARATION OF ENGOBES AND GLAZES

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ABSTRACT

Characteristics and applications of aluminium sludge resulting from the aluminium anodizing processing have been considered. In particular, it emphasizes the potential and even the possibility of applying this residue as a raw material for the ceramic tile industry. Results show that the high alumina contents (range 89-97 wt-%) and composition constancy as well as the low particle size (range 1-56 μm) make this residue a raw material source in engobes and ceramic glazes for ceramic tiles.

Key words: alumina, aluminium sludge, recycling, residues, and ceramics.