

## Interaction of aluminium nitride nanopowder with aqueous mediums

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### Abstract

The sign of a charge and electro-kinetic potential of aluminium nitride particles with sizes of from 20 to 40 nm, obtained by gas-phase technique depending on pH of aqueous solution and concentration of a disperse phase in 0.024-0.17 mole/l limits are determined by the method of electrophoresis. It is established, that particles have a positive charge, and their electro-kinetic potential depending on pH of aqueous solution makes 111.2-138.7 mV. With increase of AlN concentration it is reduced up to 46.9 mV.