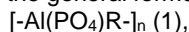


This invention relates to the field of chemical science of materials, in particular, to obtaining phosphatized crystalline aluminum oxide for multipurpose use. Proposed phosphatized crystalline aluminum oxide includes aluminum oxide and alumophosphate-organic substance of the general formula (1)



where R is alkyl, aryl, alkyl-amine radical with the length of hydrocarbon chain from 3 to 18 carbon atoms, n – not less than 2, at the following component ratio, % mass.: alumophosphate-organic substance of the general formula (1) – 0.5-10.0, aluminum oxide – 90.0-99.5. Phosphatized crystalline aluminum oxide is obtained by processing aluminum oxide in water media at room temperature at mixing, in sequence, by orthophosphoric acid up to the pH of medium equal to 4.5-6.0, by organic substance, as such a one ionogenic surface-active substance is used, in amount of 0.005-0.1% mass. of the mass of aluminum oxide, and after that with electrolyte or water-dissolvable polymer, in amount of 0.01-1.0% mass. of the mass of aluminum oxide. Products on its basis: catalysts, polymeric compositions, antirust coatings, polishing mixes, and so on. It has high performance characteristics.