

A process for preparation of modified starch comprises treatment of dry starch by phosphoric anhydride at heating. Initially, the treatment is accomplished by the urea, then to the cooled product hydrogen peroxide is added at stirring. The invention relates to the processes for preparation of modified starch, which is applied as an additive, which increases strength properties of paper and carton, made from mechanical wood pulp, waste paper, and cellulose. The phosphorilated starch is widely applied in textile, food industry and other fields of national economy.