

A method for producing a pigment titanium dioxide consists in combustion in the reaction zone at a temperature of 900-1100 °C of preheated vapours of titanium tetrachloride and water in the presence of inert gas. The vapours of titanium tetrachloride, water and inert are supplied into the reaction zone in the ratio of $1:2.2:2 = 1:3:3$, and the obtained product is maintained in the reaction zone for 6-8 seconds.