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(54) Title: PURE TITANIUM DIOXIDE HYDRATE AND A PROCESS FOR THE PRODUCTION THEREOF (57) Abstract Titanium dioxide hydrate which contains less than 250 ppm sulfate ions and less than 50 ppm ammonium or alkali metal ions with respect to TiO_2 is obtained by producing an aqueous suspension with sulfate-containing titanium dioxide hydrate with 2 to 18 % by weight, preferably 5 to 15 % by weight solid calculated as TiO_2, the sulfate content of the suspension calculated as H_2SO_4 is determined, 95 to 100.1 mol % of the stoichiometric amount of ammonia or alkali metal hydroxide necessary for the neutralization of the calculated H_2SO_4 amount is added under stirring, the suspension is filtered after stirring period of 5 to 60 minutes, preferably 10 to 30 minutes, and is washed with low-salt, preferably deionized, water and a diffusion wash with deionized water is carried out at a pressure of 3 to 5 bar is then performed.		

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