

**A PROCESS FOR MANUFACTURING TITANIUM DIOXIDE PIGMENT HAVING
A HYDROUS OXIDE COATING USING A MEDIA MILL**

ABSTRACT

This invention provides a process for making titanium dioxide pigment, wherein an aqueous slurry of hydrous oxide surface-treated TiO_2 particles is subjected to media milling. The TiO_2 particles are surface-treated with a coating comprising a hydrous oxide such as silica and/or alumina, and the slurry is filtered prior to media milling. The milled slurry is dried and the dried product is fluid-energy milled to produce TiO_2 pigment having good particle size distribution. The TiO_2 pigments may be used to make coating formulations having high gloss.