



TECHNOLOGY FOR TITANIUM (IV) OXIDE CONCENTRATE PRODUCTION FROM SLURRY OF THE PRIMARY MANUFACTURE

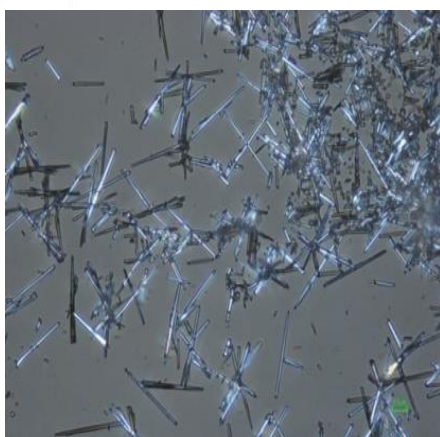


Titanium (IV) oxide is widely used mainly in the following areas:

- in paint industries in the manufacture of enamels and lacquers;
- in food, pharmaceutical and cosmetic industries;
- in the manufacture of plastics, paper and cardboard.

The technology allows us:

- to adapt the titanium compounds that are difficult to reveal and that traditionally go to industrial waste;
- to eliminate the costs of raw materials and reduce environmental load.



Disclosure of insoluble compounds of titanium is achieved without sludge waste initial grinding by introducing a modifier in an amount of not more than 5% by weight of slurry at elevated temperature using sulfuric acid technology and using standard chemical equipment. As a result of processing a small amount of waste is produced.

The obtained TiO_2 concentrate analysis

Elements	Molar ratio
Rutile, %	96,70
Fe, %	below 1.33
Ca, %	below 0.05
V, %	below 0.01
Cr, %	below 0.01
Cu, %	below 0.01
Mo, %	below 0.02
Mn, %	below 0.02
Zr, %	below 0.02
Pb, %	below 0.02
Other additives, %	below 100 %