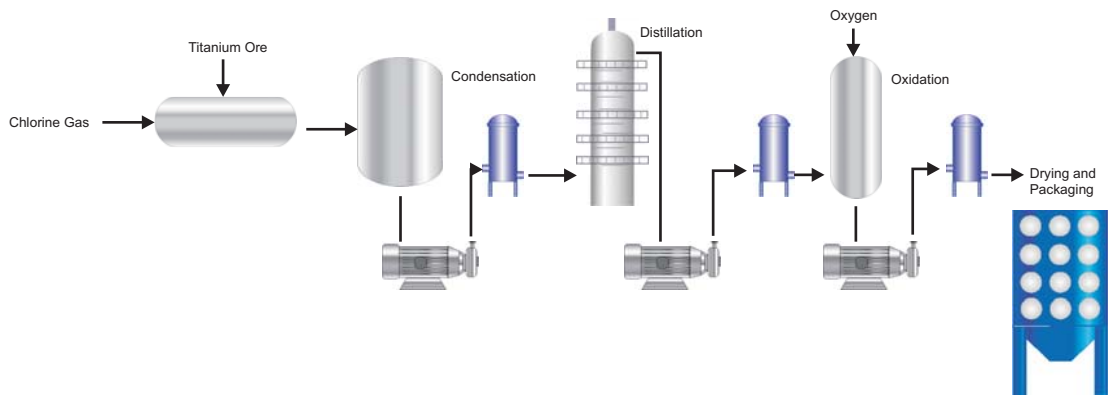


# CLASSIC

FILTER & EQUIPMENT LTD

## TITANIUM DIOXIDE CHLORIDE PROCESS



### PRODUCTS



Filter Vessel



Centrifugal pump



Dust Collector



Sensor

### PROCESS DESCRIPTION

In the Chloride Process, Rutile is blended with Coke and reacted with Chlorine gas at high temperature. The reaction produces Titanium Tetrachloride. The mixture is condensed and distilled to a liquid titanium. The liquid titanium is reacted with oxygen to form Titanium Dioxide. From there the product is dried and packaged



The condensation process produces Titanium Tetrachloride and a number of other chloride impurities. It is important to remove the impurities before the distillation process to prevent these contaminants from forming scale in the distillation tower. Classic Filter and Equipment can provide a wide array of filtration products well suited to the rigors of this application.



One of the most critical steps in the manufacturing process is the conversion of Titanium Tetrachloride to Titanium Dioxide in the Oxygenation process. It is very important that the product from the Distillation process is clean and pure. Any impurities from the Distillation process will wind up in the finished product and reduce the product quality. Class Filter and Equipment can provide filtration solutions to remove these impurities and maintain finished product quality.



The final filtration process is performed before the drying and packaging of the product to remove any final impurities that could adversely affect product quality.



Pumps are used throughout the manufacturing process to move raw materials and finished product from one stage of the process to the next. At Classic Filter and Equipment, we offer centrifugal and AODD style pumps to meet your pumping needs.



Dust Collectors are used in the packaging area to remove product dust and other airborne particulate from the air. This helps protect plant personnel in these areas and, also, keeps these contaminants from contaminating work areas and other equipment. Classic Filter and Equipment can provide either cartridge or bag style dust collectors to remove these contaminants.



Sensors are used in the manufacturing process to monitor and control pH of the various chemicals in the process. Classic Filter and Equipment offers pH sensors that are well suited for the rigorous requirements of this application. We can, also, provide sensor housings that will help protect the sensors.

**CLASSIC FILTER AND EQUIPMENT, LTD.**

P.O. Box 16486, Fort Worth, TX 76162-0486

Phone: 817-886-0008 Fax: 817-230-4198

[www.classicfilterandequipment.com](http://www.classicfilterandequipment.com)