

## ELIMINATION OF PRODUCT LOSS IN MICRONIZER EQUIPMENT USED IN PIGMENT PRODUCTION PLANTS

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### ABSTRACT

The main problem associated with the pigment production plants is the final processing of the pigment in the micronizer equipment, in order to reduce the particle size to .5 micron. This paper deals with the product loss and thereby focus is made to improve the product yield of the titanium dioxide pigment. The root cause for product loss is found to be the micronizer equipment commonly used in the pigment production plants. It is found that about 8 to 10% of product loss is reported daily in several plants. Thus a detailed study and appropriate suggestions are made to improve the product yield. The product loss is mainly due to the exhaust system of the micronizer. Thus it is found that about 98% of product yield can be achieved by the suggestions made in this paper.

**KEYWORDS:** Pigment Production Plant, Micronizer, Exhaust System, Product Yield, Root Cause