

GLOBAL TiO₂ PIGMENT PRODUCERS Comparative Cost & Profitability Study

The essential and most comprehensive guide to comparative operating costs in the global TiO₂ pigment industry



TABLE OF CONTENTS

CONFIDENTIALITY & DISCLAIMER

EXECUTIVE SUMMARY

METHODOLOGY

Cost & profitability curve set up: 2013-2018
TiO₂ pigment producer plants included in study
Inputs to models
Technology overview

TiO₂ PIGMENT MARKET FUNDAMENTALS

Demand
Supply
Production by technology and regions
Pricing fundamentals

GLOBAL & REGIONAL COST & PROFITABILITY CURVES

Global: 2013

Revenue to cash cost curves: 2013

Plant rankings by R/C ratio

Industry manufacturing cash costs

Forecast cost and profitability curves: 2014-2018

Global & regional producers

Global versus regional producers

Cost & profitability by producer type

Regional views manufacturing costs

TiO₂ cost and profitability curves by technology type

Chloride plants

Sulfate plants

Chloride versus sulfate producers: 2013 Chloride versus sulfate profitability: 2013

GLOBAL PRODUCER PROFILES

TiO₂ portfolio analysis of five global producers

COST DEVELOPMENTS

Titanium feedstock

Calcined petroleum coke

Chlorine

Sulfur/sulfuric acid

Energy

Fixed costs

Selling, general and administrative expenses

FACTORS AFFECTING RESULTS

Titanium feedstock availability

Titanium feedstock transport

Chlor-alkali chemicals

Chlorine

Sulfuric acid

Calcined petroleum coke

Energy

Waste treatment solutions

Co-products

Foreign exchange rates

Other factors including:

- Technology
- Product portfolio
- Selling, general and administrative expenses
- Ownership

DEFINITIONS



Detailed analysis of TiO₂ industry costs

Essential tool to keep up to date with TiO₂ industry

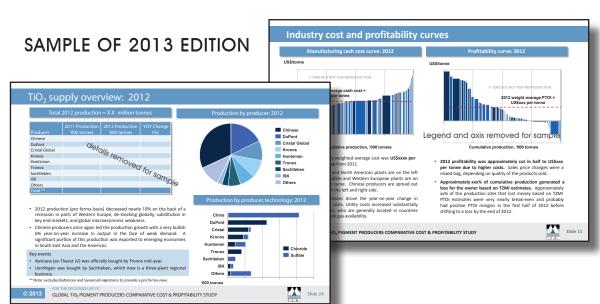


IMAGE COURTESY SACHTLEBEN

TZMI also provides an estimate of costs for Review of 21 chloride process plants a collection of smaller Chinese production pigment plants sites in order to more accurately represent 40 sulfate process the total cost curve. 10th edition TZMI provides a comprehensive examination of industry operating costs to develop cost curves and margin curves for both existing and potential backed by innew operations that can be used for benchmarking both existing depth operations, provided that cost data for these operations is analysed using database the same methodology as adopted in this study.