

# IMPEX<sup>®</sup>

## TESTING, PILOT PLANT, ENGINEERING SERVICES, TURNKEY PLANTS



THIELE KAOLIN COMPANY



ZHANJIANG KAOLIN COMPANY

INDUSTRIAL MINERALS PROCESS EQUIPMENT CORPORATION

# IMPEX CORPORATION

ENGINEERING • CONSULTANTS • MANUFACTURING • SALES

MAIN OFFICE  
JOHN WILLIAMSON, PRESIDENT  
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TECHNICAL CENTER  
JOE IANNICELLI, VICE-PRESIDENT  
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# LABORATORY SERVICES

Evaluation of crude clay and processing through finished coating clays on 5 to 50 kg scale. Beneficiation of industrial minerals. Testing of unit processes.

Develop a flow sheet and material balance suitable for scale up and determine properties of crude, intermediate, and finished products

## PROCESS EQUIPMENT INCLUDES

Blungers	Filters
Screens	Spray Dryer
Centrifuge	Delaminators
Magnetic Separators	

## LABORATORY EQUIPMENT INCLUDES

Technidyne Brightness Meter  
Brookfield Viscometer  
Hercules Viscometer  
Einlehner Abrasion Tester



**Magnetic Separator (PEM)**



**Technidyne Brightness Meter**



**Spray Dryer (Niro)**



**Hercules Viscometer**



# PILOT PLANT SERVICES

1 ton – 20 tons or more

Complete 1TPH Pilot Plant Including:

30 HP Blunger, 18", 48" Screens  
Decanter Centrifuge  
5" and 30" Magnetic Separators  
6' x 4' Rotary Vacuum Filters

Calciner

Filter Press (20 Plates 20"x20")

High Shear Mill

Spray Dryers (7.5', 12', 13', 16')



**Decanter Centrifuge**



**Filter Press**



**Magnetic Separator**



**Rotary Vacuum Filters**



**Spray Dryers**



**Calciner**

## EXPERIENCE

### JOHN WILLIAMSON

Formerly Chief Engineer, Manager  
Vice President, President (Major Kaolin  
Producer)

Over 40 years experience in kaolin process  
development including:

1. Mine Blunging/Degritting
2. Delamination
3. Flotation
4. Evaporation
5. High Shear Milling
6. Spray Drying
7. Calcination
8. Pipelines

### JOE IANNICELLI

Formerly Technical Director

Over 30 years experience in kaolin process  
development including:

1. Magnetic Separation
2. Hard Media Delamination
3. Modified Reinforcing Clays
4. Novel Brightening Methods
5. Desliming Process

## REFERENCE LIST

1. Zhanjiang Kaolin, China: 130,000 mtpa Turnkey Plant – NIRO Prime Contractor
2. Thiele Kaolin, Sandersville, Ga.: 65,000 tpa Caliciner Plant – NIRO Prime Contractor
3. Comalco Kaolin, Australia: Plant Audit Resulted in Doubling Production Capacity
4. Rio Caprim Caulim (RCC), Brazil: Consultation and Pilot Plant Study
5. Pigmentos Para (PPSA), Brazil: Consultation and Pilot Plant Study
6. Lohja, Finland: Consultation
7. Kemira, Finland: Consultation
8. Associated Kaolin Industries, Malaysia: Consultation
9. Indonesia: Numerous Firms
10. Gebruder Dorfner GMBH & Co., Germany: Consultation
11. China: Numerous Firms

**In Addition To Laboratory And Pilot Plant Services, IMPEX Offers The Following Product Lines:**

**Two Cell FMM Delaminators  
Drag Classifiers  
Screens  
Secondary Blungers  
Conditioners  
Mine Blungers**

**Centrifuges  
Rotary Vacuum Filters  
Drum/Press Cake Repulpers  
Filter Blungers  
Pulverizer/Classifier Mills  
High Shear Mills**

**High Shear Blungers  
Make Down Blungers  
Calciners  
Pin Mill Pelletizers**

**For Further Information Contact:**

# IMPEX CORPORATION

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