

# INTOCERAMICS

A wide-angle photograph of a large-scale industrial mining or processing site. The scene is dominated by a deep, dark pit in the foreground, with a yellow excavator working on its edge. In the background, a wide, dusty road winds through a landscape of grey, rocky terrain. Several pieces of heavy machinery are visible, including a large yellow drilling rig, a white truck, and a yellow excavator. The overall atmosphere is industrial and rugged.

## Uncovering Value in Mineral Waste

IntoCeramics brings more than 70 years of boots-on-the-ground experience in manufacturing operations and leadership.

Our core expertise is ceramics with our combined years of working in the trenches giving us practical perspective to guide our clients to a variety of effective solutions.

# OUR SERVICES

## CERAMIC CONSULTING



## TOLL/CONTRACT MANUFACTURING



## RESEARCH & DEVELOPMENT



## FULL-SERVICE PROCESSING LABORATORIES



## WASTE STREAM MINERALS



# TOLL/CONTRACT MANUFACTURING

IntoCeramics offers sophisticated contract manufacturing, also known as toll manufacturing, with a wide range of specialized equipment and processing knowledge to assist our clients.

## Contract Manufacturing Services at IntoCeramics

IntoCeramics can offer targeted tolling/contract manufacturing services for you whether you are in a Research and Development stage, to scalable pilot volumes, or need additional production to supplement your market demand.

### High-intensity counter-current mixing/granulating system - 75-liter capacity

- Powder mixing
- Powder/liquid mixing
- Granulating a wide range of particle sizes and materials

### Netzsch Labstar Bead Mill for Ultra-Fine Milling

- Ultra-fine wet milling of hard-to-mill powders and minerals
- Particle sizes below 1 micron
- Highly effective dispersions at low concentrations

### JC Steele Extruder

- Hi-throughput in vacuum-capable screw extrusion
- Non-plastic materials can be formed through extrusion with mineral or polymer plasticizers

### Calcining, Sintering, and Drying

- Multiple electric kilns and driers available
- 1700° capable
- Air and Nitrogen blanket atmospheres available

### Wide range of crushing/sizing and screening equipment

- Jaw crusher
- Twin roll crusher
- Ball mills
- Wet and dry screening
- 18" and 24" Sweeco Style Screeners

### Other

- Pan Granulator
- RVO2 Eirich 10-liter mixer
- 30-ton programmable hydraulic pressing for small samples
- 10-ton capable Carver hydraulic press for custom shapes
- Shimadzu Laser Diffraction Particle Analyzer

# WE SUPPORT YOU FROM START TO FINISH



## Laboratory Analysis

Analyze and evaluate your bulk material to determine potentially exploitable minerals for extraction and processing.



## Formulation & Testing

Process and blend minerals derived from your source material and test their effectiveness as raw materials for ceramics.



## Pilot Scale Validation

Test the process developed for your source material, producing pilot-scale batches for evaluation by potential end-users.



## Process Design & Construction

Design manufacturing processes, specify equipment, and represent you during all phases of construction and start-up.



## Plant Operation & Optimization

Analyze and evaluate your bulk material to determine potentially exploitable minerals for extraction and processing.



## Commercial Viability

Leverage network of industry decision-makers to introduce your product to the market and find commercial outlets.



# INTO CERAMICS

5750 NORTH SAM HOUSTON PARKWAY EAST #109  
HOUSTON, TX 77032

**406-370-8923**

**INFO@INTOCERAMICS.COM**

**WWW.INTOCERAMICS.COM**