

# SANITARYWARE SERVICES



## PROCESS OPTIMIZATION

- Firing/Sintering
- Forming
- Milling
- Drying
- Decorating
- Pressure Casting
- Spraying

## EMISSIONS

- EU ETS
- Energy

## RAW MATERIALS CHARACTERIZATION

- Milling
- Zeta Potential
- Rheology

## INNOVATION

- Low temperature firing
- Glaze repair
- Antibacterial coatings

## MINERALS SELECTION

- Clay
- Slip
- Glaze
- Flux

## QUALITY ASSURANCE

- Regulatory (lead, cadmium release)
- Management Systems Certification

## PERFORMANCE TESTING

## FAILURE INVESTIGATION

- Cracks
- Distortion
- Crazeing
- Contamination
- Pinholes

## TRAINING

## RAW MATERIALS

To ensure that the most suitable raw materials are used for your sanitaryware applications, to check that they consistently meet your product specifications, and to find new, more cost-effective sources of raw materials, we provide a comprehensive testing and selection service.

## PROCESS OPTIMIZATION

Optimizing or reorganizing existing processes, or implementing new ones, provides the ideal opportunity to ensure that systems and processes are running at their most efficient. Our processing experts can visit sites, audit production processes and recommend how to optimize sanitaryware processing facilities. Optimization encompasses all stages of the sanitaryware manufacturing process, from raw materials selection through to decorating.

## PROCESS AUDITING

Our auditing service can identify potential problems with your processes before they occur and cause product failures. In addition to finding the source of the problem, we will also work with you to provide a course of actions to solve it and to prevent it from re-occurring. Prevention is better than cure.

## EMISSIONS

High energy-intensive industries, such as ceramics, require emissions to be monitored for and reported to regulatory schemes, for example, EU ETS (EU Emissions Trading Scheme). Lucideon CICS provides independent verification of emissions data, as well as verification of voluntary carbon footprints.

## TESTING

All of the testing at Lucideon is performed in ISO 17025 accredited laboratories. Tests can be performed to international standards such as ISO and BSEN for materials development or quality assurance purposes. Our data is always timely and accurate. We don't just provide data though, we provide analysis and solutions so that the data works for you.

## INNOVATION

Technology innovations are at the heart of what we do. Our most recent innovations are changing the way ceramics are made and measured. New market applications can be approached with our innovative technologies and materials, giving you the edge over competitors and helping you to develop the products and processes of the future.

## QUALITY ASSURANCE / QUALITY CONTROL

Using our extensive analytical capabilities, our experts provide regulatory testing to BS3402 to ensure your product meet the latest production standards. We also offer auditing of product processes and management certification systems to, e.g. ISO 9001 etc., to ensure compliance.

## FAILURE INVESTIGATION

When failures occur you need to find out why. At Lucideon, our experts investigate the root cause of a failure, determining how and why it has occurred. We don't just stop at determining the source of the failure, we also work with you to correct it and provide recommendations on how your material, product or process can be changed to prevent it happening again. Our experts' knowledge is underpinned by our comprehensive analysis tools.