

# Clinker Microscopy

Expert clinker microscopy is a tool for improved productivity. The microscope can reveal a wealth of information to improve clinker production, cement quality and cement performance. Expert interpretation of clinker microstructure can serve as a quality control tool that allows troubleshooting and process change monitoring.

CTLGroup offers onsite microscopy training at your location. The course is helpful for quality control personnel, control room operators and shift supervisors. It will provide attendees with a greater understanding of:

- Clinker formation
- Importance of the chemistry and fineness of raw feed
- Identification of clinker phases and their relation to pyroprocessing parameters, raw feed burnability, clinker grindability and cement performance
- Preparation and evaluation methods
- Suggestions for product improvement, energy savings and productivity enhancement

## Don't Have a Microscope?

CTLGroup can:

- Document observations with color photomicrographs
- Interpret observations
- Recommend process optimization steps

## Not Just Data — Solutions

CTLGroup offers a broad range of consulting and training services related to cement plant operations and cement properties.

- Raw material analysis
- Phase content by X-ray diffraction
- Clinker reactivity
- Sulfate form and content
- Cement/admixture interactions
- Stack emissions control

