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Sampling and Shipment of Concrete, FTB or Grout samples for Thermal Analysis

- **ALL** samples should be taken in 3"x6" or 4"x8" test moulds.
- If these are for pre-approval, a set of 3 samples is required. Please include a copy of the mix design and thermal specifications.
- If these samples are for Q/A (quality assurance test program), a set of 2-3 should be taken at each station.
- **All samples should be marked with the date the samples were cast, station number or Mix ID, type of material (FTB, Grout or Concrete), etc.**
- The samples can be shipped after 24-36 hours of curing period. Please cap and duct-tape the sample moulds to prevent loss of moisture and to minimize disturbance during transportation.
- Samples should be wrapped in bubble wrap and shipped in cardboard box or 5-gallon bucket with proper packaging material to minimize disturbance.
- Include a chain of custody form (see below) with each set of samples in a ziploc bag.
- Send all samples via **FedEx** or **UPS** overnight service (or 2nd day air service).
- Email the tracking number to info@geothermusa.com and lab@geothermusa.com
- Please contact us if you have any questions or require further details.

Please ship samples to:

GEO THERM USA
21239 FM529 Road, Bldg F
Cypress, Texas 77433
(281) 985-9344

COOL SOLUTIONS FOR UNDERGROUND POWER CABLES
THERMAL SURVEYS, CORRECTIVE BACKFILLS & INSTRUMENTATION

SERVING THE ELECTRIC POWER INDUSTRY SINCE 1978



Frequently Asked Questions:

What is the usual turnaround time on test results?

- For 3"x6" test moulds, it takes about 7-10 calendar days depending on when we receive them
- For 4"x8" test moulds, it takes about 10-14 calendar days depending on when we receive them

Are there any special instructions in taking samples and placement of the material into the test cylinders, for instance placement for test cylinders for compressive strength requires 3 lifts and rodding each lift a specific number of times?

- Following the above instructions should provide the necessary information.
- The high strength and low strength materials have a slump and will self level and fill all the annular space. Vibration will actually segregate the materials

Do the test cylinders have to set for specific length of time before shipping?

- Low strength should sit for minimum 36 hours
- High strength should sit for minimum 24 hours
- You should cap and tape all cylinders with proper ID on the side of each sample

Can our field personnel take the samples and make the cylinders, or do we need to have the testing company doing the compressive strength cylinders also make these cylinders?

- Typically, a third-party contractor who performs strength testing will take the cylinders for thermal testing as well.

Is there any special concerns or methods we should take when shipping the samples?

- This is covered in the shipping/sampling instructions.
- Each sample should be bubble wrapped and ensure that the cap is taped on.



Pre-Cast Chain of Custody Form

Please include this form in a Ziploc bag for each set of samples submitted:

Company Name: _____

Contact Name: _____

Contact Number: _____

Company to Invoice: _____

PO Number: _____

Email Address for Report Submittal: _____

Project Name: _____

Project Number: _____

Project Location (city/state): _____

Sample ID **or** Mix ID **or** Station Location: _____

Sample Type (Concrete, FTB or Grout): _____

Sample Cast Date: _____ Number of samples per set: _____

Thermal Requirements: _____

Is this Pre-Approval Testing **or** Quality Assurance Testing: _____