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Sampling and Shipment of Concrete and FTB samples for Thermal Analysis

- **Ductbank Concrete or FTB** 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 samples were cast, station number or Mix ID, type of material (FTB or Concrete), etc.**
- The samples can be shipped after 24 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 shipped in cardboard box with proper packaging material to minimize disturbance. The package should be marked "**concrete samples for laboratory testing only**".
- Include a manifest of the samples in each box.
- Declare a value of \$15 for the entire package and send it via **FedEx** or **UPS** overnight service (or 2nd day air service).
- Email or Fax details of the shipment including tracking number.
- You may use the shipping label given below.
- Please contact us if you have any questions or require further details.

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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 sample submitted:

Company Name: _____

Contact Name: _____

Project Name: _____

Project Location (city/state): _____

Station Location: _____

Sample Type (Concrete or FTB): _____

Sample Collection Date: _____

Number of Samples per set: _____