

SOP-PIN-19 Pin FTIR % Similarity

Purpose: To determine percent similarity of a pin during threshold testing for permit renewal.

Materials:

- Base pin slice from SOP-PIN-15
- SOP-LAB-1 (FTIR Procedures)
- Flat head screwdriver
- Rubber Mallet
- 2 pliers
- Plastic tubing cutter
- Small plastic cylinder tube with lid

Procedure:

1. Using a screwdriver and a rubber mallet, knock the inlet cut out of the base pin slice.
2. Using two pliers, clamp onto the pin base with one and the wood and pin coating with the other and pry the pin base off the sample.
3. Using the plastic tubing cutters, cut off a thin, flat slice from both the pin base and the pin coating.
4. Follow steps in SOP-LAB-1.
 - a. Compare the current scans, both the pin base and pin coating, to the scans from the original pin submitted for approval. (Note: this is not always the first submitted of that permit #. Make sure you compare to the original first pin of its kind)
5. Enter the comparison percent similarities for the plastic coating and pin base in the Pin Threshold Worksheet.
6. Pin bases must produce at least 94.0% (>0.940) similarity and pin coatings must produce at least 92.5% (>.925) similarity when compared to the original sample to pass FTIR testing.