

## IN-HOUSE PROCEDURE # \_\_\_\_\_

### PROCEDURE FOR VERIFYING COARSE SIEVES

Item:

Coarse Sieves

Purpose:

This method provides instructions for checking the physical condition and measuring the dimensions of laboratory test sieves with openings of No. 4 (4.75 mm) or larger.

Inspection Equipment Required:

1. A caliper readable to at least 0.01 mm for verifying No. 4 and larger sieves.

Tolerance:

Sieves shall meet the physical requirements as specified in ASTM E11, Table 1.

Procedure for Coarse Sieves:

1. Inspect the label on the sieve for sieve size designation, manufacturer's name and serial number. Repair or replace any unreadable or missing labels.
2. Visually inspect the condition of the sieve cloth against a uniformly illuminated background for punctures, creases, large dents, looseness or distortion. Use an optical magnifier to examine any suspicious areas of the cloth. If defects are found, the sieve is unacceptable.
3. Visually inspect the frame and solder joint between the frame and the sieve cloth for cracks or holes. If any unsealed areas are noted, the sieve is unacceptable until the joint can be sealed.
4. Select a minimum of 5 full openings (or all of the full openings if less than 5) in a diagonal line on the sieve. Using the caliper, measure both dimensions of each sieve opening. The average opening size must be within  $\pm Y$  of the sieve size in mm. The maximum opening size must be within  $\pm X$  of the sieve size in mm. If any opening is larger than the sieve size  $\pm X$ , the sieve is unacceptable (see Table 1, ASTM E11).