

SPP 39

BCRA Tile Cleaning Procedure

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Manufacturing Engineering Manager

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APPROVED BY: ECO # 21080 DATE: 3-17-2012
Engineer Change Order

1. PURPOSE:

The purpose of this specification is to define the proper method for cleaning BCRA color tiles used for testing X-Rite instruments.

2. SCOPE:

This specification applies to all BCRA color tiles and Metallic color tiles used during the manufacture of X-Rite instruments, regardless of the type of instrument being tested.

3. DESCRIPTION:

The BCRA color tiles used in the testing of X-Rite instruments are extremely sensitive to contamination on the surface of the tiles. In order to achieve consistent reading repeatability, any change in the spectral characteristic of the tile due to contamination must be minimized. Therefore the following cleaning procedure must be followed:

NOTE: The only materials allowed for cleaning are Sparkle brand cleaning solution (SD116-04), distilled water, 4x4" clean wipes (STK-611), and Isopropanol Alcohol (filtered Isopropyl Alcohol from Fisher Scientific or equivalent). The use of 4x4" clean wipes is allowed only during the cleaning of the tile as outlined below. Use of a dry clean wipe on a dry tile is strictly prohibited. Materials used to clean the tiles must be approved by Engineering.

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3.1. Method 1 – CtestXP Tile Sets:

1. Place the tile on a stable surface and grasp the tile firmly by its edges.
2. Spray a liberal amount of Isopropyl Alcohol onto the surface of the tile.
3. Follow the Alcohol application by spraying a liberal amount of Sparkle brand cleaner onto the surface of the tile.
4. Using a 4x4” clean wipe, allow the wipe to become saturated with the Sparkle on the tile, then wipe the tile in a circular motion, making sure to clean the entire surface of the tile, Discard the wipe.
5. Grasp the tile firmly by its edges and hold over a catch container away from the testing area.
6. Spray a liberal amount of distilled water onto the surface of the tile, making sure to cover the entire surface of the tile, and allow the run-off to fall into the catch container.
7. Dry the tile by applying a small amount of Isopropyl Alcohol to a 4x4” wipe. Then wipe the tile in a circular motion, making sure to dry the entire surface of the tile. Discard the wipe.
8. Return the tile to the testing fixture and remove the catch container.

3.2. Method 2 – Loose tiles (non CtestXP Tile Sets):

1. Place the tile on a stable surface and grasp the tile firmly by its edges.
2. Spray a liberal amount of Sparkle brand cleaner onto the surface of the tile.
3. Using a 4x4” clean wipe, allow the wipe to become saturated with the Sparkle on the tile, then wipe the tile in a circular motion making sure to clean the entire surface of the tile, Discard the wipe.
4. Grasp the tile firmly by its edges and hold over a catch container away from the testing area.
5. Spray a liberal amount of distilled water onto the surface of the tile, making sure to cover the entire surface of the tile, and allow the run-off to fall into the catch container.
6. Dry the tile over the catch container by blowing the surface with compressed air, making sure the tile surface is completely dry and free of any water. Be sure that the tile is held firmly during this step.
7. Return the tile to the testing fixture and remove the catch container.

3.3. Method 3 – Fixtured tiles (track or carousel):

Important Note: Clean each tile individually – do not clean the tiles by wiping down the entire length of the track or fixture.

1. Spray a liberal amount of Isopropyl Alcohol on a 4x4" clean wipe.
2. Spray a liberal amount of Sparkle brand cleaner on a 4x4" clean wipe.
3. Spray a liberal amount of distilled water on a second 4x4" clean wipe.
4. Using the wipe with the Alcohol, wipe the tile in a circular motion making sure to clean the entire surface of the tile. Discard the wipe.
5. Using the wipe with Sparkle, wipe the tile in a circular motion making sure to clean the entire surface of the tile. Discard the wipe.
6. Using the wipe with water, wipe the tile in a circular motion making sure to clean the entire surface of the tile. Discard the wipe.
7. Dry the tile by blowing the surface with compressed air, making sure the tile surface is completely dry and free of any water.

4. CHANGE LOG:

Rev. A-03/08/96 **Initial Release**

Rev. B-11/12/04 **Prepared by:** Regina Manning **Checked by:** David Ott **Date:** 11/12/04

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WAS: SCOPE This specification applies to all BCRA color tiles used during the manufacture of X-Rite instruments, regardless of the type of instrument being tested.

IS: SCOPE This specification applies to all BCRA color tiles and Metallic color tiles used during the manufacture of X-Rite instruments, regardless of the type of instrument being tested.

Under Description section, break section into two parts, Method 1 - Loose tiles, and Method 2 - Fixtured tiles (track or carousel):

WAS:

1. Grasp the tile firmly by its edges and hold over a catch container away from the testing area.
2. Spray a liberal amount of Sparkle brand cleaner onto the surface of the tile, letting the run-off fall into the catch container.
3. Using a 4x4" clean wipe, allow the wipe to become saturated with the Sparkle on the tile, then wipe the tile in a circular motion making sure to clean the entire surface of the tile. Discard the wipe.
4. Spray a liberal amount of distilled water onto the surface of the tile, making sure to cover the entire surface of the tile, and allow the run-off to fall into the catch container.
5. Dry the tile over the catch container by blowing the surface with compressed air, making sure the tile surface is completely dry and free of any water. Be sure that the tile is held firmly during this step.
6. Return the tile to the testing fixture and remove the catch container

IS:

Method 1 - Loose tiles:

1. Place the tile on a stable surface and grasp the tile firmly by its edges.
2. Spray a liberal amount of Sparkle brand cleaner onto the surface of the tile.
3. Using a 4x4" clean wipe, allow the wipe to become saturated with the Sparkle on the tile, then wipe the tile in a circular motion making sure to clean the entire surface of the tile. Discard the wipe.
4. Grasp the tile firmly by its edges and hold over a catch container away from the testing area.
5. Spray a liberal amount of distilled water onto the surface of the tile, making sure to cover the entire surface of the tile, and allow the run-off to fall into the catch container.
6. Dry the tile over the catch container by blowing the surface with compressed air, making sure the tile surface is completely dry and free of any water. Be sure that the tile is held firmly during this step.
7. Return the tile to the testing fixture and remove the catch container.

Method 2 - Fixtured tiles (track or carousel):

Important Note: Clean each tile individually - do not clean the tiles by wiping down the entire length of the track or fixture.

1. Spray a liberal amount of Sparkle brand cleaner on a 4x4" clean wipe.
2. Spray a liberal amount of distilled water on a second 4x4" clean wipe.
3. Using the wipe with Sparkle, wipe the tile in a circular motion making sure to clean the entire surface of the tile. Discard the wipe.
4. Using the wipe with water, wipe the tile in a circular motion making sure to clean the entire surface of the tile. Discard the wipe.
5. Dry the tile by blowing the surface with compressed air, making sure the tile surface is completely dry and free of any water.

Rev. C-3/17/2012 added section for CtestXP tile sets to be used internally and at service centers

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