

STANDARD TEST METHOD 10

CHELSEA COLOUR FILTER EXAMINATION

1.1 SCOPE

This Standard describes the method of using a Chelsea Colour Filter to detect whether the test Fei Cui (Jadeite Jade) is with indication of dye.

1.2 APPLICATION

The Chelsea Colour Filter examination applies to items made from Fei Cui (Jadeite Jade) as received by the laboratory for testing.

The Chelsea Colour Filter test shall be used as a reference only for the identification of Fei Cui (Jadeite Jade) on its authenticity.

1.3 DEFINITIONS

Not applicable

1.4 APPARATUS

The following apparatuses are required:

1. A Chelsea Colour Filter.
2. An intense light source: Tungsten light or equivalent.

1.5 TEST ITEM

The Chelsea Colour Filter examination is a single unit test for a whole piece of test item in its entirety. Sampling of a number of test items to represent a batch of Fei Cui (Jadeite Jade) products shall not be permitted.

1.6 PROCEDURES

1. The test Fei Cui (Jadeite Jade) shall be cleaned scrupulously with a lint-free cloth
2. The Fei Cui (Jadeite Jade) item shall be placed against a white background and illuminated with an intense white light source.
3. The intensity of the light shall be adjusted based on the depth of colour of the test Fei Cui (Jadeite Jade). A lighter colour Fei Cui (Jadeite Jade) shall be illuminated with a lower-intensity light source.
4. The Chelsea Colour Filter shall be placed between the observer and the test Fei Cui (Jadeite Jade).

5. Any colour observed under viewing through the Chelsea Colour Filter in the test Fei Cui (Jadeite Jade) shall be recorded.

Note:

The reaction of colour change observed could be influenced by the size, shape and transparency of the test Fei Cui (Jadeite Jade), as small, light-colour or opaque test Fei Cui (Jadeite Jade) shall give a weaker reaction.

Results depend also upon the relative concentration of different colouring elements if more than one is present in the test Fei Cui (Jadeite Jade).

Depending on the type and amount of colouring agent, every test Fei Cui (Jadeite Jade) reacts a little bit differently.

1.7 EXPRESSION OF RESULTS

Not Applicable

1.8 TEST REPORT

The report shall affirm that the test was carried out in accordance with this Standard. The Chelsea Colour Filter examination should be reported as far as possible with other Fei Cui (Jadeite Jade) test results such as polariscope examination, shape and cut identification, measurement of dimensions and weight, identification of transparency, determination of specific gravity & refractive index, examination of fluorescence, infrared spectrum examination, magnification examination and spectroscopic examination. In general, the test report shall include but not be limited to the following:

- (a) Identification number of the Fei Cui (Jadeite Jade) item.
- (b) Date of test.
- (c) Standard method of Chelsea Colour Filter examination.
- (d) Name of person carrying out the test.
- (e) Name and signature of person responsible for testing.