

STANDARD TEST METHOD 12

FEI CUI (JADEITE JADE) MAGNIFICATION EXAMINATION

1.1 SCOPE

This Standard describes the method of magnification examination to examine the surface and internal characteristics of the test Fei Cui (Jadeite Jade).

1.2 APPLICATION

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

1.3 DEFINITIONS

Internal and External Characteristics:

1. Texture:

Type	Texture	Description
Fine Grain	Fibrous	Mostly not easily observed by naked eyes
Medium Grain	Granular & Fibrous	Mostly seen by naked eyes
Coarse Grain	Granular	Mostly very obvious grain sizes

2. Surface:

- Iron-staining
- Glistening
- Pit
- Orange peel
- Micro crack
- Groove

1.4 APPARATUS

The following apparatus is required:

A binocular microscope with a magnification of at least 10X.

1.5 TEST ITEM

The magnification examination is a single unit test for a whole piece of test item in its entirety. Sampling of a number of item 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 on the stone-holder under the microscope.
3. The test Fei Cui (Jadeite Jade) shall be illuminated from the side.
4. The test Fei Cui (Jadeite Jade) shall be observed in all directions under a low magnification.
5. The observer shall look for signs of fracture, fracture luster and cleavage under a higher magnification.
6. The surface and internal characteristics of the test Fei Cui (Jadeite Jade) shall then be recorded for further analysis.

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 magnification 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, spectroscopic examination and Chelsea Colour Filter 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 magnification examination.
- (d) Name of person carrying out the test.
- (e) Name and signature of person responsible for testing.