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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3813-2014

Rapid determination of radionuclides for natural stone

天然石材放射性核素快速分析方法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China, Xiamen Entry-Exit Inspection and Quarantine Bureau Technology Center.

1 Scope

This standard specifies the natural stone radionuclide radium 226, thorium 232, potassium 40 than the rapid detection of activity.

This standard applies to natural stone radionuclide radium 226, thorium 232, potassium 40 Determination of specific activity.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 6566 building materials radionuclide limits

3 Terms and Definitions

The following terms and definitions apply to this document.

Natural stone After selection and processing of natural rock special size or shape, according to the material is divided into marble, granite, limestone, sandstone, board Stone, according to the purpose can be divided into natural building stone and natural stone and other decorative.

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Note: During the processing of natural stone using cement or synthetic resin seal natural stone gaps and cracks, does not change the internal structure of the stone material, natural stone belongs Material category.

Natural radionuclides naturalradionuclide Naturally occurring radionuclides. Within the usual time frame that its activity is unchanged.

Radioactivity at a given moment, in a certain amount of a particular energy state of a certain radionuclide activity is dN A dt obtained by dividing the quotient see equation (1).

A = dN/dt (1)

Where.

dN -- within the time interval dt, the number of nuclides spontaneous nuclear transitions from that energy state happen expectations.

Specific activity Unit mass of a substance (radioactivity) activity.

The bottom (count) background (count) in the test without the presence of the radiation source, the inherent count measuring means. These counts from cosmic rays, put the surrounding environment Radioactive material and radioactive contamination of the detector itself.

4 Standard

Body standard source. body standard source to be detected using the same sample size, the same material sample box. Standard matrix precursor source with the sample to be detected

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