



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 36900.2-2018

**Concrete High Integrity Container for Low-and-Intermediate
Level Radioactive Solid Wastes**

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Foreword

To implement the "Environmental Protection Law of the People's Republic of China"

The Nuclear Safety Law of the Republic establishes this standard to prevent and control radioactive pollution, improve environmental quality, and protect human health.

Low and medium level radioactive waste high integrity container series Standard high integrity container series made of three different materials

Standard composition.

- "High-integrity container for low- and medium-level radioactive waste - ductile iron container" (GB 36900.1);

- "High-integrity container for low- and medium-level radioactive waste - concrete container" (GB 36900.2);

- "High-integrity container for low- and medium-level radioactive waste - cross-linked high-density polyethylene containers" (GB 36900.3).

This standard is the second part of the "low and medium level radioactive waste high integrity container - concrete container"

(GB 36900.2), specifies high-integrity concrete containers for packaging low- and medium-level radioactive solid waste

(hereinafter referred to as "concrete container") basic safety requirements, product performance requirements, inspection methods, inspection rules, signs and

Product storage and transportation requirements.

Appendix A~G is a normative appendix.

This standard is the first release.

This standard is formulated by the Department of Environmental Protection Radiation Protection, the Nuclear Safety Supervision Department, and the Science and Technology Standards Department.

This standard was drafted. China Nuclear Power Engineering Co., Ltd., Tsinghua University, China Institute of Atomic Energy, Shanghai Nuclear

Engineering Research and Design Institute, China Building Materials Science Research Institute Co., Ltd.

This standard has been implemented since March 1, 2019.

This standard is explained by the Ministry of Ecology and Environment.

36900.2-2018

Low and medium level radioactive waste high integrity container - concrete container

1 Scope of application

This standard specifies the high integrity container for concrete used for packaging low and medium level radioactive solid waste (hereinafter referred to as "mixed"

Basic safety requirements, product performance requirements, inspection methods, inspection rules, identification and storage and transportation of products

begging.

This standard applies to waste conditioning, storage, transportation and disposal activities in the management of low- and medium-level radioactive solid waste.

Concrete containers used are not suitable for packaging containers containing high level waste and used as Type B and Type C packages.

This standard applies to the design, manufacture, procurement, inspection and other activities of concrete containers.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies to this standard.

GB 5749 Sanitary Standard for Drinking Water

Safety regulations for near-surface disposal of low- and medium-level radioactive solid wastes GB 9132

GB 11806 Safe Transport Procedure for Radioactive Material

GB 12711 Low and medium level radioactive solid waste packaging safety standards

GB 50119 Concrete Admixture Application Technical Specifications

GB/T 175 universal Portland cement

GB/T 1596 for fly ash in cement and concrete

GB/T 14684 construction sand

GB/T 14685 construction pebbles, gravel

GB/T 15219 Quality assurance of transportation and packaging of radioactive materials

GB/T 18046 for granulated blast furnace slag powder in cement and concrete

GB/T 27690 silica fume for mortar and concrete

GB/T 50081 Standard test method for mechanical properties of ordinary concrete

GB/T 50082 standard test method for long-term performance and durability of ordinary concrete

Methods for determination of physico-physical properties of coal and rock - Part 5. Methods for determination of water absorption of coal and rock

JG/T 5004 concrete ultrasonic detector

Classification of Radioactive Waste (Ministry of Environmental Protection, Ministry of Industry and Information Technology, National Defense Science and Technology Industry Bureau announced the 65th of.2017)

number)