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

GB 14470.3-2011

Replacing GB 14470.3-2002

**Effluent standards of water pollutants for ammunition loading
industry**

弹药装药行业水污染物排放标准

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1 Scope of application

Part 3 of GB 14470 covers the last stage of the chain, ammunition loading: melting, casting, pressing and machining explosive charges into shells and warheads, and the washing-out operations used to demilitarise them. The effluent carries dissolved and suspended explosive together with the solvents used, and the standard sets its maximum allowable discharge concentrations, the monitoring requirements and the rules for implementation. Issued on 29 April 2011, in force since 1 January 2012, replacing GB 14470.3-2002. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the edition it replaces are taken from there. The clause text, the tables and the numeric limits are not reproduced on this page - they are in the document itself, which is delivered in full in English translation.

This standard specifies the water pollutant discharge limit, monitoring and monitoring requirements of the ammunition charging enterprise, as well as the implementation and supervision of the standard. set. This standard applies to the management of water pollutant discharge of various types of existing ammunition charging enterprises. This standard is applicable to the environmental impact assessment, environmental protection facility design, and environmental protection inspection for all types of ammunition charging enterprises. Receive and manage the discharge of water pollutants after production. This standard applies to the discharge of pollutants permitted by law; the location of newly established sources of pollution and the existing sources of pollution in special protected

areas Li, in accordance with the Law of the People's Republic of China on the Prevention and Control of Air Pollution, the Law of the People's Republic of China on the Prevention and Control of Water Pollution, Law on Environmental Protection, Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste, Law of the People's Republic of China on Environmental Impact Assessment, etc. The relevant provisions of laws and regulations are implemented. The water pollutant discharge control requirements specified in this standard are applicable to the behavior of enterprises directly or indirectly discharging water pollutants outside their legal boundaries.

2 Normative references

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

GB/T 6920 Determination of water pH value - Glass electrode method

GB/T 7494 - Determination of anionic surfactants - Determination of methylene blue spectrophotometric method

GB/T 11893 Determination of total phosphorus in water - Ammonium molybdate spectrophotometric method

GB/T 11894 Determination of total nitrogen in water - Alkaline potassium persulfate digestion - UV spectrophotometric method

GB/T 11901 Determination of suspended solids by weight method

GB/T 11903 Determination of water color chromaticity

GB/T 11914 Determination of chemical oxygen demand in water - Potassium dichromate method

GB/T 13900 Water quality black wire determination of spectrophotometry

GB/T 16488 -- Determination of petroleum and animal oils HJ/T

86 Determination of Biochemical Oxygen Demand (BOD₅) - Rapid Determination of Microbial Sensors HJ/T 195 Determination of ammonia nitrogen in water quality - Gas chromatography HJ/T.199 Determination of total nitrogen in water -- Gas phase molecular absorption spectroscopy HJ/T 399 Water quality chemical oxygen demand determination - Rapid digestion spectrophotometric method

HJ 505 Water quality five-day biochemical oxygen demand (BOD₅) determination dilution and inoculation method

HJ 535 Water quality - Determination of ammonia nitrogen - Nyna reagent spectrophotometric method

HJ 536 - Determination of ammonia nitrogen - Water salic acid spectrophotometric method

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Ammunition loading ammunition loading According to the kinetic energy requirements, a certain amount of gunpowder, explosives, pyrotechnics and pyrotechnics are filled into the bomb according to certain process requirements. The process or final result in a drug-related component.

3.2 TNT 2,4,6-trinitrotoluene Common name. TNT; code. TNT; other names. brown dynamite; chemical name. 2,4,6-trinitrotoluene; molecular formula. $\text{CH}_3\text{C}_6\text{H}_2(\text{NO}_2)_3$; relative molecular mass 227.13; structural formula. $\text{O}_2\text{N}-\text{C}_6\text{H}_2-\text{NO}_2$

3.3 Dien 2,4-dinitrotoluene Common name. Dien ladder; code. DNT; chemical name. 2,4-dinitrotoluene; molecular formula. $\text{CH}_3\text{C}_6\text{H}_3(\text{NO}_2)_2$; relative points Sub-mass 182.14; structural formula. $\text{NO}_2-\text{C}_6\text{H}_3-\text{NO}_2$

3.4 Hexagonal cyclotrimethylene trinitramine; Hexogen Common name. Hessian today; code. RDX; chemical name. cyclotrimethylene trinitramine, also known as 1,3,5-trinitro-1,3,5-triaza Cyclohexane; molecular formula. $(\text{CH}_2\text{NNO}_2)_3$; relative molecular mass 222.15; structural formula. $\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{NO}_2-\text{NO}_2-\text{O}_2\text{N}$

3.5 Existing enterprise existing facility Ammunition charging enterprises or production facilities that have been approved for production or environmental impact assessment documents have been completed by the date of implementation of this standard.

3.6 New enterprise new facility The construction of ammunition and charge industry in the newly-built, rebuilt and expanded environmental impact documents approved by the implementation date of this standard.

3.7 Discharge of wastewater Refers to the amount of wastewater discharged by a production facility or enterprise outside the legal boundaries of the enterprise, including various effluxes that are directly or indirectly related to production. Waste water (including domestic sewage, cooling wastewater, plant boilers and power plant wastewater).

3.8 Datum discharge of wastewater quantity in unit time Refers to the daily cleaning equipment, working surface, washing protection products, water bath dust collector and other provisions specified for the approval of the concentration of water pollutants. The upper limit of wastewater discharge from an external drainage facility.

3.9 Direct discharge Refers to the behavior of pollutant discharge units directly discharging pollutants into environmental water bodies.

3.10 Indirect discharge Refers to the discharge of pollutants by the sewage unit to the public sewage treatment system.

3.11 Public sewage treatment system Refers to collecting waste water through sewage

pipelines, providing wastewater treatment services for more than two sewage disposal units and draining can reach relevant rows Enterprises or institutions required by the standard, including urban sewage treatment plants of various scales and types, regions (all kinds of industrial parks, development zones, labor Wastewater treatment plants, etc., where the wastewater treatment plant should reach the secondary or secondary level.

4 Technical Requirements" and "

5 Other Requirements" sections of GB 14470.3-2002 to "Water Pollutant Discharge" Control requirements"; pollutant emission control project added "total phosphorus, total nitrogen, ammonia nitrogen, anionic surfactants and baseline drainage" to control Increased the number of projects from the original 9 to 14; increased the concentration limit requirements for direct and indirect emissions; increased water pollutants Emission limit. -- Amend "

6 Monitoring" in GB 14470.3-2002 to "Water Pollutant Monitoring Requirements". -- Added new content in the "Implementation and Supervision" section. Since the date of implementation of this standard, the "Ammunition Industry Water Pollutant Emission Standard Ammunition Charge" (GB 14470.3-2002) is automatically abolished. This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection. This standard is mainly drafted by: Beijing Zhongbing North Environmental Technology Development Co., Ltd. and China Ordnance Industry Group Corporation. This standard was approved by the Ministry of Environmental Protection on April 29, 2011. This standard has been implemented since January 1, 2012. This standard is explained by the Ministry of Environmental Protection. Ammunition charging industry water pollutant discharge standards

5 Water pollutant monitoring requirements

5.1 Sampling of wastewater discharged by enterprises shall be carried out according to the type of pollutants to be monitored and at the monitoring location of the specified pollutant discharge. Waste water Facilities should be monitored after the facility. The enterprise shall set the sampling port according to the requirements of the national technical regulations on pollution source monitoring, in the pollutant discharge A permanent drain outlet sign shall be provided for the monitoring position.

5.2 Requirements for the installation of automatic monitoring equipment for pollutant discharge in newly-built enterprises and existing enterprises, in accordance with relevant laws and "Automatic Monitoring and Management of Pollution Sources" The provisions of the Measures are implemented.

5.3 The frequency, sampling time, quality assurance and quality control requirements for monitoring the discharge of water pollutants of enterprises shall be in accordance with the