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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 25846-2010

Industrial gamma-ray density meter

工业用γ射线密度计

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Foreword

This standard GB/T 1.1-2009 given rules for writing. The standard proposed by China Petroleum and Chemical Industry Association. This standard by the chemical industry and special instrumentation Standardization Technical Committee. This standard was drafted. Tianhua Institute of Chemical Machinery and Automation. The main drafters of this standard. Liu Jianmin, Zhao Wanxiang, buy Kerry. Industrial gamma-ray density meter

1 Scope

GB/T 25846-2010 is the Chinese national standard on industrial gamma-ray density meter, in the field of manufacturing engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 10 January 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 July 2011. Classification: ICS 25.040.40, CCS G98. 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 issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the industrial gamma-ray density meter (hereinafter referred to as density meter) the type, technical requirements, test methods, inspection rules and standard Chi, packaging, transportation and storage. This standard applies to the use of gamma-ray density measurement density meter.

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 3836.1 Electrical apparatus for explosive gas atmospheres - Part 1. General requirements

GB 3836.2 Electrical apparatus for explosive gas atmospheres Part 2. Explosion-proof "d"

GB 4075 Sealed radioactive sources - General requirements and classification

GB 8702 electromagnetic radiation protection

GB/T 8993 nuclear instruments - Environmental conditions and testing procedures

GB/T 9969-2008 General Industrial Product Manual

GB 11806 Regulations for the Safe Transport of Radioactive Substances

GB/T 13384 mechanical and electrical products packaging General technical conditions Radiation safety performance of

GB 14052-1993 isotope instrumentation installed on the device requirements Type 3

3.1 densitometer composition Densitometer by the sources, detectors, converters three major components.

3.2 Parameter

3.2.1 Measuring range. 0.5g/cm3 ~ 3g/cm3.

3.2.2 Output Type.

a) LED display or computer display;

b) DC. 0V ~ 5V, 4mA ~ 20mA signal output;

c) upper and lower relay contact output with status indication.

3.2.3 features. keyboard placement, data are available, power-down data protection, power-on self-starting and the like.

3.2.4 between the detector and the signal converter maximum transmission distance of 1000m.

3.3 Densitometer normal operating conditions

a) Ambient temperature. probe is -20 °C ~ 50 °C, the converter is 5 °C ~ 50 °C;

b) Relative humidity. less than 90%;

c) Power supply voltage. AC (220 ± 22) V;