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

GB/T 10238-2015

Replacing GB 10238-2005

Oil well cement

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Foreword

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

This standard replaces GB 10238-2005 "oil well cement."

The main changes compared to the Standard and GB 10238-2005 are as follows.

--- This standard is mandatory nature of the change recommended;

--- Deleted E-class, F-class two-level oil well cement (2005 Version 4.1.1);

--- Temperature for temperature measurement and control system allows deviation and pressure measurement system requirements, and has been modified (see Chapter 8, 9

Chapter, Chapter 10, 2005 edition of Chapter 8, Chapter 9, Chapter 10);

--- On timers and temperature measurement system calibration frequency required changes (see Chapter 7, Chapter 8, Chapter 9, Chapter 10, 2005

Version of Chapter 7, Chapter 8, Chapter 9, Chapter 10);

--- Compressive strength test mode from the original side of 50.8mm to 50mm or 2in (see 9.1.1.1, 2005 version 9.1.1);

The performance indicators --- pressure thickening device used in hydrocarbon oil change (see 10.1, 2005 version 10.1).

This standard uses redrafted Law Amendment uses ISO 10426-1:2009 "cementing oil well cement and material specifications."

This standard and ISO 10426-1:2009 compared to more adjustments in the structure, are given in Appendix A of this standard and ISO 10426-1.

Reg control list number 2009.

This standard and ISO 10426-1:2009 compared to the existence of technical differences, these differences involve the provision has passed the gap in the outside margin

Vertical single-line position (I) be marked Appendix B gives a list of corresponding technical differences and their causes.

This standard also made the following editorial changes.

--- Remove the ISO 10426-1.2009 Foreword and Introduction;

--- Remove the ISO 10426-1. Appendix A 2009's "thermocouple temperature measurement system and the controller calibration procedure";

--- Remove the ISO 10426-1. Appendix B 2009 "License holders use API monogram."

The standard proposed by China Building Materials Federation.

This standard by the National Standardization Technical Committee cement (SAC/TC184) centralized.

This standard is drafted by. China Building Materials Academy.

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This standard replaces the standards previously issued as follows.

--- GB 10238-1988, GB 10238-1998, GB 10238-2005.

Oil well cement

1 Scope

This standard specifies the definition of six levels of oil well cement, requirements, test methods, marking, packaging and the like.

This standard applies to A, B, C, D, G and H oil well cement production and testing.

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/T 176 chemical analysis of cement

GB/T 5483 natural gypsum

GB/T 8074 Determination of specific surface of cement - Blaine method

GB/T 12573 cement sampling method

GB/T 26748 cement grinding aids

JC/T 2000 oil well cement physical performance test equipment

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Oil well cement additives oilwelledmentadditive

Water was added to the slurry to improve the performance of the material.

Note. The performance improvement usually include setting time (use of retarder or accelerator), dehydration, and viscosity.

3.2

Pressure device thickening atmospheric pressure consistometer

For grout mixing and modulation device.

Note. not for thickening measurement time.

3.3

Consistency unit --- Burdon (Bc) Bearden unit of consistency

Measured by the pressure thickening slurry consistency.

3.4

Portland cement portlandcement

The Portland cement clinker (mainly composed of calcium silicates and aluminates hydraulic composition) product with an appropriate amount of one or more types of ground gypsum formed.

3.5

Pressure thickening device pressuredconsistometer

At a predetermined temperature and pressure, for the determination of water slurry thickening time of the instrument.

3.6

Free fluid freefluid

Under standing conditions, away from the aqueous slurry precipitated colored or colorless liquid.