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

GB/T 30788-2025

Replacing GB/T 30788-2014

**Corrosion control technology for steel pipelines covered by
cold-applied petrolatum tape**

钢制管道外部冷缠矿脂带包覆腐蚀控制技术

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Materials	2
5 Design	3
6.Construction	5

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document supersedes GB/T 30788-2014 "Specification for External Wrapping of Anti-corrosion Cold-applied Petroleum Grease Tape for Steel Pipes" and is consistent with GB/T Compared to 30788-2014, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2014 edition);
- b) The content of "Terms and Definitions" has been changed (see Chapter 3, Chapter 3 of the.2014 edition);
- c) The way the "density" requirement is expressed has been changed (see Table 1, Table 1 in the.2014 edition), and the phrase "petroleum grease or paraffin content (mass content)" has been removed. The requirements and testing methods for "volume fraction" (see Table 1 of the.2014 edition) have been expanded to include "cone penetration", "non-volatile matter content", and "chemical resistance". Requirements and testing methods for "medium corrosion" (see Table 1);
- d) The "size" of the petrolatum strip has been removed (see 4.3.1 in the.2014 edition);
- e) The "Flame Retardant Rating" was changed to "Flaming Performance Rating" and its requirements were modified. The unit and testing method for "Tear Strength" were also changed. Test methods for "elongation at break", units and requirements for "water vapor transmission rate", and requirements for "resistance to chemical corrosion" (see Table 2,.2014) Table 2 of the.2014 edition removed the requirements and testing methods for "flash point" and "petroleum grease or paraffin content (mass fraction)" (see.2014).

The 2018 edition of Table 2 added requirements and testing methods for "areal density" and "high temperature resistance" (see Table 2);

f) The requirements for "apparent density" and "resistance to chemical media corrosion" have been changed (see Table 3, 2014 edition);

g) The content of the "Design" section has been changed (see Chapter 5, Chapter 5 of the 2014 edition);

h) The content of "Construction" has been changed (see Chapter 6, Chapter 6 of the 2014 edition);

i) The content of "Inspection and Acceptance" has been changed (see Chapter 7, Chapter 7 of the 2014 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Petroleum and Chemical Industry Federation. This document is under the jurisdiction of the National Technical Committee on Corrosion Control Standardization (SAC/TC381). This document was drafted by: Aizhi (Nanjing) Environmental Pipe Connection Technology Co., Ltd., Cai Xiang Group Co., Ltd., and Sichuan Zhongxinshuo Technology Co., Ltd. Limited Liability Company, Yangjiang Nuclear Power Co., Ltd., CNNC Nuclear Power Operation Management Co., Ltd., Anhui Tao Boshi Environmental Protection Technology Co., Ltd., China National Petroleum Corporation Southwest Oil and Gas Field Branch Safety, Environmental Protection and Technology Supervision Research Institute of Gas Co., Ltd., Suzhou Thermal Power Research Institute Co., Ltd., Nanjing Jingrui New Energy Co., Ltd. Materials Co., Ltd., Shenyang Zhongke Environmental Engineering Technology Development Co., Ltd., Guangdong Special Equipment Inspection and Research Institute, Sichuan Special Equipment Inspection and Research Institute Inspection and Testing Research Institute, China Inspection and Testing Holding Group Xiong'an Co., Ltd., Hebei Provincial Natural Gas Co., Ltd., Beijing Lewen Technology Development Co., Ltd. Hunan Anguang Inspection and Testing Co., Ltd., Zhong'an Hongda Construction Co., Ltd., Zhejiang Digital Intelligence Transportation Research Institute Technology Co., Ltd., Hangzhou Benchuang Technology Limited Liability Company, China Railway 22nd Bureau Group Electrification Engineering Co., Ltd., China Corrosion Control Technology Association, China Construction Steel Structure Co., Ltd., Jiang Suzhou Jinling Special Coatings Co., Ltd., Anhui Shenda Construction Engineering Co., Ltd., Shandong Shanghe New Material Technology Co., Ltd., Guangdong Special Equipment Coatings Co., Ltd. The testing institutes include Zhuhai Testing Institute, Guanghan Huaqi Anticorrosion Engineering Co., Ltd., and China Construction Science & Industry Group Co., Ltd. The main drafters of this document are: Zhao Jingyang, Jia Yicang, Zhao Guoyu, Zhang Dayong, Xu Ke, Zhou Min, Lin Dong, Liu Zhong, Zhang Jun, Wu Jianglong, and Cai Jiansheng. Chen Bo, Fan Zonghui, Sun Zhiqiang, Chen Yonglin, Mao Jie, Xiang Bin, Liu Chang, Luo Weijian, Li Zhixiang, Ren Peng, Pan Yaofan, Li Xia, Wang Xiaolu, Zhan Lining Zhuang Suoliang, Zhang Peng, Han Qing, Yang Hongjun, Li Xufeng,

Chen He, Tian Xianwu, Liu Hongyi, Xu Xiaomei, Wang Weijian, Deng Deyuan, Cai Qin, Wang Cong, Wang Zheng Bian Zhibing, Du Kaiyan, Li Ying, Kang Sijia, Li Fengguang, Tian Jianghe, He Xiaoyu, Zhang Jian, Deng Cong, Huang Yu, Wen Guosong, Ma Qinglei, Du Mingchi, Xu Yaqian, Wang Long, Zhao Bing. This document was first published in 2014, and this is its first revision. Steel pipes are coated with cold-applied petrolatum tape to prevent corrosion. Control technology

1 Scope

GB/T 30788-2025 is the Chinese national standard covering petrolatum tape wrapping - the surface preparation that a system tolerant of damp and rust still needs, the paste, the tape and the outer wrap, and the places it is used because nothing else can be applied over a running line. It replaces GB/T 30788-2014. It was issued on 2 December 2025 and has been in force since 1 July 2026, replacing GB/T 30788-2014. The document is under the responsibility of the China Petroleum and Chemical Industry Federation. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the materials, design, construction, inspection and acceptance, and documentation requirements for corrosion control technology involving external cold-applied petroleum grease tape coating of steel pipelines. Materials and their preservation. This document applies to the external coating of steel pipes and irregularly shaped components (such as flanges, valves, tees, crosses, etc.) in atmospheric environments (including humid environments). The corrosion control technology of coating with mineral grease tape can be used as a reference for corrosion control of cold-applied mineral grease tape coating on the exterior of other steel structures.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 269 Determination of cone penetration of lubricating greases and petroleum greases

GB/T 1037 Determination of water vapor permeability of plastic films and sheets - Cup method (weight gain and weight loss method)

GB/T 1408.1 Electrical strength test methods for insulating materials - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

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