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NATIONAL STANDARD



OF THE PEOPLE'S REPUBLIC OF CHINA

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GB 50126-2008

**Code for Construction of Industrial Equipment
and Pipeline Insulation Engineering**

工业设备及管道绝热工程施工规范

Issued on: March 10, 2008

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Jointly Issued by **Ministry of Construction of the People's Republic of China**
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Chief Development Department: Branch on Chemical Industry, China Association for Engineering
Construction Standardization

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NOTICE

This code is written in Chinese and English. The Chinese text shall be taken as the ruling one in the event of any inconsistency between the Chinese text and the English text.

**Announcement of Ministry of Construction of the People's
Republic of China**

No. 829

Announcement on Publishing the National Standard “Code for Construction of
Industrial Equipment and Pipeline Insulation Engineering”

Code for Construction of Industrial Equipment and Pipeline Insulation Engineering has been approved as a national standard with a serial number of GB 50126–2008, and implemented since August 1, 2008. Therein, Articles (Items) 1.0.4, 3.1.3 (3), 3.2.1, 4.1.3, 4.3.1, 4.3.6, 5.1.10, 5.8.2 (2 and 6), 5.8.3 (6), 5.9.4 (2), 5.11.10, 5.13.6, 5.13.11 (2), 5.13.12, 7.1.14, 7.1.16, 8.0.1, 8.0.3 and 8.0.7 (1 and 4) are compulsory provisions, and must be enforced strictly. “Code for Construction of Industrial Equipment and Pipeline Insulation Engineering” GBJ 126–89 shall be abolished simultaneously.

Authorized by Standard Rating Institute of Ministry of Construction, this code is published and distributed by China Planning Press.

Ministry of Construction of the People's Republic of China

March 10, 2008

Foreword

This code was revised based upon "Specifications for Construction and Acceptance of Industrial Equipment and Pipeline Thermal Insulation" GBJ 126-89 according to the requirements of Document Jian Biao [2004] No. 67 issued by Ministry of Construction-Notice on Printing the Development and Revision Plan of National Chemical Engineering Construction Standardize Administrative Center Station and organizations all concerned as chemical engineering, electric power, petrification, construction material professions, etc..

Marshalling makes widely investigation during the revision process and sum up long experience with national insulation engineering design, construction, engineering applications and scientific research, etc. in recent ten years, and meanwhile, they referred to a great deal of standards and information on insulation engineering inland and abroad and widely solicited opinions on revision draft of the code from engineering design, construction, insulating materials production and mass detection organizations, etc. of chemical engineering, petrification, electric power, metallurgy mechanism professions, etc., and then with repeatedly discussion by the marshalling, and at last finalized after investigation.

This code contains nine chapters and four appendices; the main content includes general provisions, terminology, material, preparation and requirement for the constructions, and construction for heat insulating layer, vapor barrier and cladding, safety engineering as well as engineering hand over, etc..

Main content of this revision is as follows:

1. It adds a chapter on terminology;
2. It adds a section on transportation, depositing and maintenance;
3. It revises technical parameters as heat conductivity coefficient, density and compressive strength of heat insulating material as well as slag globule grain diameter and content of fibred heat insulating material, etc.;
4. It adds setting-in layering laying method, smear method and construction method of metal reflective insulating structure, etc.;
5. It adds construction requirement for pipe in pipe structure with good heat insulating effect, reliable antiseptic property and low-grade maintenance cost, etc.;
6. It deletes specification for leaving expansion joint in the middle of heavy caliber and high temperature channel bend and adds content of permitting to leave with expansion joint under the flange;
7. It deletes content of asphaltic bitumen and vapor barrier of waterproof cold stock glass cloth, as well as adds construction specification for vapor barrier adopting coiled material;
8. It adds construction specification for composite cladding material;
9. It adds report on starting construction, record of concealed work and insulation engineering delivering report, etc. in the delivering file.

The provisions printed in bold type are compulsory provisions and must be enforced strictly.

Contents

1	General Provision.....	1
2	Terms.....	2
3	Materials.....	4
3.1	Quality Requirements.....	4
3.2	Quality Inspection	5
3.3	Transportation Depositing and Maintenance.....	5
4	Preparation and Requirement for the Construction.....	7
4.1	General Requirements	7
4.2	Preparation and Requirement Before Construction.....	7
4.3	Accessory Installations.....	8
5	Construction of Heat Insulating Layer	11
5.1	General Requirements	11
5.2	Construction of Setting-in Layering Method	12
5.3	Strapping Construction.....	12
5.4	Construction of Assembly Building Method.....	14
5.5	Filament Winding Construction	14
5.6	Filling Construction	15
5.7	Adhesive Constructions	15
5.8	Casting Construction.....	16
5.9	Spraying Process Construction.....	18
5.10	Smear Method Construction.....	19
5.11	Construction of Detachable Heat Insulating Layer	19
5.12	Construction of Metallic Reflecting Insulation Structure	21
5.13	Leaving and Setting of Expansion Joint and Expansion Clearance	21
6	Vapor Barrier Construction	23
6.1	General Requirements	23
6.2	Constructions.....	23
7	Construction of Cladding	25
7.1	Metal Coating.....	25

7.2 Nonmetallic Cladding	28
8 Safety Engineering	31
9 Engineering Hand Over.....	33
Appendix A Report on Starting the Engineering Construction	34
Appendix B Record of Concealed Work	35
Appendix C Delivering Summary Sheet of Equipment and Pipeline Insulation Engineering	36
Appendix D Hand Over Report of Insulation Engineering	37
Explanation of Wording in This Code.....	38

1 General Provision

1.0.1 This code was established with a view to improve construction level for the insulation engineering and strengthen quality control during insulation engineering construction process as well as guarantee construction quality for construction of industrial equipment and pipeline insulation engineering.

1.0.2 This code is applicable to construction of industrial equipment and pipeline insulation engineering with construction, extension and renovation outside surface temperature is $-196\sim +850^{\circ}\text{C}$.

This code is not applicable to equipment and pipeline with inside thermal insulation liner and with special requirements (nuclear energy radiation appliance, aviation industry and space industry, etc.), as well as construction of long transporting pipeline buried in the ground and temporary facilities insulation engineering.

1.0.3 Construction of industrial equipment and pipeline insulation engineering shall comply with design document and specification in this code.

1.0.4 When revised design, material substitution or new materials are required, it must be accepted by the original design organization.

1.0.5 Construction of insulation engineering shall not only comply with requirement in this code, but also meet the requirement of national current relevant standards and codes.

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