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Chemical Industry Standard of the People's Republic

of China 中华人民共和国化工行业标准

HG/T 20679-2014 Replace HG/T 20679-1990

Design code for external corrosion protection of chemical equipment and piping

化工设备、管道外防腐设计规范

Issued on July 9, 2014

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Chemical Industry Standard of the People's Republic of China

Design code for external corrosion protection of chemical equipment and piping

HG/T20679-2014

Chief editorial organizations: East China Engineering Science and Technology Co., Ltd. Approving department: Ministry of Industry and Information Technology of the People's Republic of China Implementation date: Nov. 1, 2014

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Ministry of Industry and Information Technology of the

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Announcement

2014 No. 47

The Ministry of Industry and Information Technology approved 676 industry standards including *Blister Packaging Machine* (see Annex for standard number, name, and main content and initial implementation date). Among them, 394 standards for machinery industry (including 16 standards for pharmaceutical equipment), 1 standard for automobile industry, 41 standards for aviation industry, 135 standards for light industry, 37 standards for textile industry, 4 standards for packaging industry, 42 standards for chemical industry, 6 standards for petrochemical industry, 4 standards for non-ferrous industry, 7 standards for metallurgy industry, 2 standards for building materials industry, 1 standard for electronic industry and 2 standards for communication industry.

The above standards for machinery industry are published by China Machine Press, the standards for automotive, pharmaceutical equipment and packaging industry are published by China Planning Press, the standards for aviation industry are published by China Aviation Integrated Technology Research Institute, the standards for light industry are published by Chinese Light Industry Press, the standards for textile and nonferrous metal industry are published by Chemical Industry Press, the standards for the chemical industry are published by Chemical Industry Press, the standards for petrochemical industry are published by China Petrochemical Press, the standards for metallurgical industry are published by Metallurgical Industry Press, the standards for building materials industry are published by Building Materials Industry Press, the standards for electronic industry are published by Electronic Industry Standardization Research Institute of the Ministry of Industry and Information Technology, and the standards for communication industry are published by Posts and Telecommunications Press.

Annex: The standard No., standard name and initial implementation date of 33 chemical industry standards.

Ministry of Industry and Information Technology of the People's Republic of China

July 9, 2014

Annex:

Standard No., standard name and initial implementation date of 33 chemical

industry standaus					
Serial	Standard No.	Standard name	Standard No.	Initial	
No.			replaced	implementation	
				date	
612	HG/T	Code for design of	HG/T	2014-11-01	
	20568-2014	storageyard and	20568-1994		
		warehouse of bulk			
		material of chemical			
		industry			
613	HG/T	Steel manholes and	HG/T	2014-11-01	
	21514-2014	handholes	21514-2005		
614	HG/T	Manholes for	HG/T	2014-11-01	
	21515-2014	atmospheric use	21515-2005		
615	HG/T	Steel manholes and	HG/T	2014-11-01	
	21516-2014	handholes	21516-2005		
616	HG/T	Slip on flange	HG/T	2014-11-01	
	21517-2014	manholes with hinged	21517-2005		
		cover			
617	HG/T	Welding neck flange	HG/T	2014-11-01	
	21518-2014	manholes with hinged	21518-2005		
		cover			
618	HG/T	Plate flange manholes	HG/T	2014-11-01	
	21519-2014	with davit to vertical	21519-2005		
		cover			
619	HG/T	Slip on flange	HG/T	2014-11-01	
	21520-2014	manholes with davit to	21520-2005		
		vertical cover			
620	HG/T	Welding neck flange	HG/T	2014-11-01	
	21521-2014	manholes with davit to	21521-2005		
		vertical cover			
621	HG/T	Plate flange manholes	HG/T	2014-11-01	
	21522-2014	with davit to horizontal	21522-2005		
		cover			
622	HG/T	Slip on flange	HG/T	2014-11-01	
	21523-2014	manholes with davit to	21523-2005		
		horizontal cover			
623	HG/T	Welding neck flange	HG/T21524-2005	2014-11-01	
	21524-2014	manholes with davit to			
		horizontal cover			
624	HG/T	Quick open manholes	HG/T	2014-11-01	

industry standards

	21525-2014	for atmospheric use	21525-2005	
625	HG/T	Elliptical quick open	HG/T	2014-11-01
	21526-2014	manholes with hinged	21526-2005	
		cover		
626	HG/T	Quick open manholes	HG/T	2014-11-01
	21527-2014	with hinged dome	21527-2005	
		cover		
627	HG/T	Handholes for	HG/T	2014-11-01
	21528-2014	atmospheric use	21528-2005	
628	HG/T	Plate flange handholes	HG/T	2014-11-01
	21529-2014		21529-2005	
629	HG/T	Slip on flange	HG/T	2014-11-01
	21530-2014	handholes	21530-2005	
630	HG/T	Welding neck flange	HG/T	2014-11-01
	21531-2014	handholes	21531-2005	
631	HG/T	Welding neck flange	HG/T	2014-11-01
	21532-2014	handholes with hinged	21532-2005	
		cover		
632	HG/T	Quick open handholes	HG/T	2014-11-01
	21533-2014	for atmospheric use	21533-2005	
633	HG/T21534-2014	Quick open handholes	HG/T	2014-11-01
		with rotating handle	21534-2005	
634	HG/T	Quick open handholes	HG/T	2014-11-01
	21535-2014	with hinged cover	21535-2005	
635	HG/T	Classification and	HG21594-1999	2014-11-01
	21594-2014	technical specification		
		for lining stainless		
		steel manholes and		
		handholes		
636	HG/T21596-2014	Lining stainless steel	HG21596-1999	2014-11-01
		rotary cover manhole		
637	HG/T21597-2014	Lining stainless steel	HG21597-1999	2014-11-01
		rotary arch cover of		
		quick opening		
		manhole		
638	HG/T21598-2014	Lining stainless steel	HG21598-1999	2014-11-01
		horizontal hanging		
		cover manhole		
639	HG/T21599-2014	Lining stainless steel	HG21599-1999	2014-11-01
		vertical hanging cover		
		manhole		
640	HG/T21600-2014	Lining stainless steel	HG21600-1999	2014-11-01
		elliptic quick opening		
		manhole		

641	HG/T21602-2014	Lining stainless steel	HG21602-1999	2014-11-01
		flat cover handhole		
642	HG/T21603-2014	Lining stainless steel	HG21603-1999	2014-11-01
		rotary cover quick		
		opening handhole		
643	HG/T21604-2014	Lining stainless steel	HG21604-1999	2014-11-01
		swing-type quick		
		opening handhole		
644	HG/T20679-2014	Design code for	HG/T20679-1990	2014-11-01
		external corrosion		
		protection of chemical		
		equipment and piping		

Forward

According to the requirements of *Notice on Printing and Distributing the Plans for the Second Batch* of Industry Standard System in 2011 (G.X.T.K. [2011] No. 134) from Office of the Ministry of Industry and Information Technology and Notice on *Forwarding Notice on Printing and Distributing the Plans for the Second Batch of Industry Standard System in 2011 from Office of the Ministry of Industry and Information Technology* from China Petroleum and Chemical Industry Federation (Z.S.H.L.Z.F.[2011] No. 300), this code is revised by East China Engineering Science and Technology Co., Ltd. under organization of the national chemical process piping design technology center station commissioned by the China Petroleum and Chemical Exploration Design Association.

From the date of implementation, this code shall replace the Provisions for the *Design regulation for external corrosion protection of chemical equipment and piping* HG/T 20679 - 1990.

The Code is divided into 8 chapters and 6 appendixes, which mainly includes the following technical contents: General rules, terminology, surface preparation, the requirements for surface preparation, atmospheric corrosion, liquid medium corrosion, soil corrosion, surface identification color and code indication, appendixes, explanation of wording in the standard, normative standards and explanation of provisions.

Compared with HG/T 20679-1990, the standard has the main changes as follows:

1. The standard name is changed to *Design code for external corrosion protection of chemical equipment and piping*;

2. Taking the standards requirements of engineering construction as the main content, comprehensively revise the contents of the original standard, and sort out the provisions and chapters and format of the standard in accordance with the requirements of the Provisions on the Compilation of Standards for the Construction of Projects.

3. Terms, the requirements of surface preparation, liquid medium corrosion, insulation and corrosion protection, fire and corrosion protection and other chapters are added;

4. Forward, description of terms in the specification and the introduction of the standard directory are added, and according to the need, the explanation of part of clauses is

added.

The Standard is under the jurisdiction of China Petroleum and Chemical Industry Association.

The technical content of this code is explained by East China Engineering Science and Technology Co., Ltd. In the implementation process of the specification, if the specification needs to be modified or supplemented, please send opinions or advice letter to the national chemical process piping design technology center station (address: No. 2, Chuangda 2nd Road, Laiguangying High-tech Industrial Park, Chaoyang District, Beijing; Postal code: 100012) East China Engineering Science and Technology Co., Ltd. (mailing address: No. 70. Wangjiang East Street, Hefei City, Anhui Province; Postal code: 230024), for the reference for future revision.

Chief editorial organizations, participated organizations, main drafters and main examiners of the Code:

Chief editorial organizations: East China Engineering Science and Technology Co., Ltd. Participated editorial organizations: Haritage Aggregates of China B.V

AkzoNobel Coatin (Boxing) Co., Ltd.

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1 General provisions

1.0.1 In order to ensure the service life of the external corrosion protection design of the chemical equipment, pipeline and steel structure, uniform and standardize design standards, make this code.

1.0.2 This code is applicable to the external corrosion protection of chemical equipment, pipe and steel structure of carbon steel, cast iron, low alloy steel and stainless steel.

1.0.3 The environmental conditions of this code include the industrial atmosphere (collectively referred to as the atmosphere), liquid medium, soil, etc.

1.0.4 The corrosion protection methods used in this code include non-metallic coating, coating and cladding, excluding metal painting, metal coating and electrochemical protection.

1.0.5 The performance indexes of anti-corrosive materials shall meet the requirements of this code, and have the factory certificate and the inspection data. Materials shall be used within the period of validity and the expired materials shall not be used.

1.0.6 The design for external corrosion protection of chemical equipment, piping and steel structure, in addition to comply with this code, shall be in conformity with the requirements of the current national relevant standards.



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