

ASTM A587-89a/ASME SA-587 ELECTRIC WELDED LOW CARBON STEEL PIPE FOR THE CHEMICAL INDUSTRY¹

This standard² is issued under the fixed designation A 587; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 this specification covers electric-resistance-welded low-carbon steel pipe intended for use as process lines.

1.2 Pipe ordered under this specification shall be suitable for severe forming operations involving flanging in all sizes and bending to close radii up to and including NPS 4.

1.3 This specification covers NPS 1/2 through 10, plus additional sizes. The corresponding outside diameters and wall thickness for NPS 1/2 through 10 are listed in Table 4, as are the dimensions for the additional sizes.

NOTE 1A The dimensionless designator NPS (nominal pipe size) has been substituted in this standard for such traditional terms as "nominal diameter," "size," and "nominal size."

1.4 the values stated in inch-pound units are to be regarded as the standard.

1.5 The following precautionary caveat pertains only to the test method portion, Section 6, 12 and 13, of this specification: This standard does not purport to address all of the safety problems, of any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:

- A 53 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless³
- A 370 Test Methods and Definitions for Mechanical Testing of Steel Products⁴
- A 530/A 530M Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe³
- A 751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products³
- E 213 Practice for Ultrasonic Inspection of Metal Pipe and Tubing⁵
- E 273 Practice for Ultrasonic Examination of Longitudinal Welded Pipe and Tubing⁵
- E 309 Practice for Eddy-Current Examination of Steel Tubular Products Using Magnetic Saturation⁵
- E 570 Practice for Flux Leakage Examination of Ferromagnetic Steel Tubular Products⁵

¹This specification is under the jurisdiction of ASTM Committee A-1 on Steel, Stainless Steel, and Related Alloys, and is the direct responsibility of Subcommittee A01.09 on Steel Pipe.

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²For ASME Boiler and Pressure Vessel Code applications see related Specification SA - 587 in Section II of that Code.

³Annual Book of ASTM Standards, Vol 01.01.

⁴Annual Bok of ASTM Standards, Vol 01.03.

⁵Annual Bok of ASTM Standards, Vol 03.03.

3. Ordering Information
4. Materials and Manufacture
5. Chemical Composition
6. Mechanical Requirements
7. Dimensions and Permissible Variations
8. Workmanship, Finish, and Appearance
9. Number of Tests
10. Retests
11. Retreatment
12. Test Specimens and Methods of Testing
13. Nondestructive Test
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15. Rejection
16. Product Marking
17. Packaging

JIS Number and Corresponding Foreign Standards

JIS			ASTM			BS			DIN			NF			ISO			Index Number	
Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type		
G3454	STPG370 (STPG38)	C	A135	Gr A	C	3601	ERW360	C	1626	St37.0	C	A49-112	TS27b	C	559	TS4	C	C002	
			A587	-	C	"	S360	C	1629	St37.0	C	A49-141	TS37a	C	2604/2	TS4	C		
										17172	StE210.7	C	A49-142	TS37a	C	2604/3	TW4		C
													"	TS37b	C				
													A49-150	TSE235	C				
													A49-212	TS37c	C				
													A49-242	TS37c	C				
													A49-250	TAE24a	C				

												A49-400	TSE220	C			
	STPG410 (STPG42)	C	A135	Gr B	C	3601	ERW410	C	1626	St44.0	C	A49-112	TS42b	C	559	TS9	C
			A524	-	C	"	S410	C				A49-141	TS42b	C	2604/2	TW9	C
												A49-212	TS42c	C	2604/3	TW9	C
												A49-242	TS42c	C	3183	E24-1	C
												A49-250	TSE26b	C	"	E24-2	
												A49-400	TSE250	C			