ASTM A335-89a/ASME SA335 SEAMLESS FERRITIC ALLOY STEEL PIPE FOR HIGH TEMPERATURE SERVICE

This standard is issued under the fixed designation A 335/A 335M; 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 (2) indicates an editorial change since the last revision or reapproval.

1.Scope

1.1This specification covers nominal (average) wall seamless alloy-steel pipe intended for high-temperature service (Mote 1). Pipe ordered to this specification shall be suitable for bending, flanging (vanstoning), and similar forming operations, and for fusion welding. Selection will depend upon design, service conditions, mechanical properties, and high-temperature characteristics.

NOTE 1 A Appendix X1 lists the sizes and wall thickness of pipe which may be obtained under current commercial practice.

1.2 Several grades of ferritic steels (Note 2) are covered. Their compositions are given in Table 1.

Note 2AFerritic steels in this specification are defined as low and intermediate-alloy steels containing up to and including 10% chromium.

- 1.3 Supplementary requirements (S1 to S7) of an optional nature are provided. These supplementary requirements call for additional tests to be made, and when desired, shall be so stated in the order together with the number of such tests required.
- 1.4 The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with specification. The inch-pound units shall apply unless the "M" designation of this specification is specified in the order.

Note 3AThe dimensionless designator NPS (nominal pipe size) has been substituted in this standard for such traditional terms as "nominal diameter," "size," and "nominal size."

JIS Number and Corresponding Foreign Standards

JIS			ASTM			BS			DIN			NF			ISO			Index
Standard Number		Type	Standard Number	Grade	Туре	Standard Number		Туре	Standard Number	Grade	Type	Standard Number		Туре	Standard Number	Grade		Number
G3458	STPA12	Мо	A335	P1	Мо													C006
	STPA20	CrMo	A335	P2	CrMo							A49-213	TU15CD205	CrMo				
	STPA22	CrMo	A355	P12	CrMo	3604	HFS620-460	CrMo	17175	13CrMo44	CrMo							
							CFS620-460	CrMo										
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						п	CEW620-460	CrMo										
							HFS620-440	CrMo										
						11	CFS620-440	CrMo										
							ERW620-440	CrMo										
							CEW620-440	CrMo										
		CrMo	A355	P11	CrMo	3604	HFS621	CrMo				A49-213	TU10CD5.05	CrMo				
	STPA23						CFS621	CrMo										
	31FA23					11	ERW621	CrMo										
							CEW621	CrMo										
	STPA24	CrMo	A355	P22	CrMo	3604	HFS622	CrMo	17175	10CrMo910	CrMo	A49-213	TU10CD9.10	CrMo				
						11	CFS622	CrMo										
	STPA25	CrMo	A355	P5	CrMo	3604	HFS625	CrMo				A49-21	TUZ12CD0.05	CrMo	2604/2	TS37	CrMo	
						"	CFS625	CrMo										
	STPA26	CrMo	A355	P9	CrMo	3604	HFS629-470	CrMo				A49-213	TUZ10CD9	CrMo				
							CFS629-470	CrMo										