ASTM A451/ASME SA451 STANDARD SPECIFICATION FOR CENTRIFUGALLY CAST AUSTENITIC STEEL PIPE FOR HIGH TEMPERATURE SERVICE¹

- 1. Scope
- 1.1 This specification² covers austenitic alloy steel pipe for use in high-temperature, corrosive, or nuclear pressure service.
- 1.2 Several grades of austenitic stainless steel are covered as indicated in Table 1.
- 1.3 Optional supplementary requirements are provided when additional testing may be required.
- 1.4 The values stated in inch-pound units are to be regarded as the standard.

Note 1 - This specification is not intended to cover centrifugal pipe made from alloys containing more than 0.20% carbon, such as are covered by Specification A297.

Material Comparison Tables (ASTM, KS, JIS, DIN, BS, NF, UNI)

ASTM Standard	uns no.	KOREA/JAPANES			GERMAN				BRITISH			FRENCH			ITALIAN		
		KS/JIS Symbol		Remarks	DIN Type	DIN Number		Remarks	B.S Number		Remarks	AFNOR Type	NF Number	Remarks	UNI Type	UNI Number	Remarks
A 451 Centrifugally Cast Austenitic																	
Steel Pipe for High Temperature																	
Service																	
Grade CPF 8	J92600			(3)	G-X6 CrNi 189	17445	1.4308	(3b)	4534	1	(3a)			(3)			
Grade CPF 8C	J92710				G-X7 CrNiNb 18 9	17445	1.4552	(3b)			(3)			(3)			(3)
Grade CPF 8M	J92900				G-X6 CrNiMo 18 9	17445	1.4408	(3b)	4534	3	(3a)			(3)			
Grade CPF 20	J94202			(3)	G-X15 CrNi 25 20		1.4840	WBL-595(3b)	4534	7	(3a)			(3)			