

**BS 3602-2 STEEL PIPES AND TUBES FOR PRESSURE PURPOSES: CARBON AND CARBON MANGANESE STEEL WITH SPEIFIED
ELEVATED TEMPERATURE PROPERTIES
PART 2-87 SUBMEGRED ARC WELDED TUBES**

1. SCOPE

Specification for longitudinally arc welded tubes requirements for plain end tubes.

Grade	Tensile Test MPa or N/mm ²	
	Min Yield point	Tensile Strength
SAW410	245	490~550
SAW460	280	460~600

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

ASTM Standard	UNS NO.	GERMAN				BRITISH			FRENCH			ITALIAN		
		DIN Type	DIN Number	Material Number	Remarks	B.S Number	B.S Grade	Remarks	AFNOR Type	NF Number	Remarks	UNI Type	UNI Number	Remarks
A 106 Seamless C-Steel Pipe for High Temperature Service														
Grade A	K02501	St 35.8	17175	1.0305		3602	HFS 360		TU 37C	A49-213		C 14	5462	
Grade B	K03006	St 45.8	17175	1.0405		3602	HFS 410		TU 42C	A49-213		C 18	5462	

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	
G3456		C	A106	Gr A	C	3602	HFS360	C	17175	St35.8	C	A49-211	TU37b	C	2604/2	TS5	C	C004
	STPT370					"	CFS360	C	17177	St37.8	C	A49-213	TU37c	C	2604/3	TW9H	C	
	(STPT38)					"	ERW360	C				A49-243	TU37c	C				
						"	CEW360	C										
	STPT410	C	A106	Gr B	C	3602	HFS410	C	17175	St45.8	C	A49-211	TU42b	C	2604/2	TS9H	C	

	(STPT42)					"	CFS410	C	17177	St42.8	C	A49-213	TU42c	C				
						"	ERW410	C				A49-243	TU42c	C				
						"	CEEW410	C										
		C	A106	Gr C	C	3602	HFS460	C				A49-211	TU48b	C	2604/2	TS14	C	
	STPT480					"	CFS460	C				A49-213	TU48c	C				
	(STPT42)					"	ERW460	C										
						"	CEEW460	C										

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	
G3461	STB340	C	A161	LC	C	3059	HFS320	C				A49-245	TS34e	C				C010
	(STB35)		A192	-	C	"	CFS320	C				"	TS34c	C				
			A226	-	C	"	ERW320	C										
			A556	GrA2	C	"	CEW320	C										
			A557	GrA2	C	"	S1 360	C										
						"	S2 360	C										
						"	ERW 360	C										
						"	CEW360	C										
						3606	ERW320	C										
						"	CEW320	C										
						"	CFS320	C										
	STB410	C	A179	GrC	C	3059	S1 440	C	17175	St45.8	C	A49-213	TU42c	C	2604/2	TS9H	C	
	(STB42)		A210	GrA1	C	"	S2 440	C	17177	St42.8	C	A49-215	TU42c	C	"	TW9H	C	
			A556	GrB2	C	"	ERW 440	C				A49-243	TS42c					
			A557	GrB2	C	"	CEW 440	C				A49-245	TS42c					

					3602	HFS 410	C				"	TS42c					
					"	CFS 410	C										
					"	ERW 410	C										
					"	CEW 410	C										
					3606	ERW 440	C										
					"	CEW 440	C										
					"	CFS 440	C										
STB510	C						C	17175	19Mn5	C	A49-213	TU52C	C	2604/2	TS18	C	
(STB52)							C				A49-248	TU52C	C				