

ISO 3183-80 OIL AND NATURAL GAS INDUSTRIES STEEL LINE PIPE

1. Chemical Composition

Grade	Mfg. Process	Chemical Composition (%)								
		C	Si	Mn	P	S	Ni	Cr	Mo	Others
E17	S, W	0.21Max	-	0.30-0.60	0.045Max	0.06Max	-	-	-	-
E21	S, W	0.22Max	-	2.0Max	0.04Max	0.06Max	-	-	-	-
E24-1	S, W	0.22Max	-	1.15Max	0.04Max	0.06Max	-	-	-	-
E24-2	S, W	0.27Max	-	1.15Max	0.04Max	0.06Max	-	-	-	-

2. Mechanical Properties

Grade	Tensile Test MPa or N/mm ²		Remarks (Similar to JIS)
	Min Yield point	Tensile Strength	
E17	18	315Min	-
E21	21	330Min	-
E24-1	25	410Min	(STPG410)
E24-2	25	410Min	(STPG410)

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				

