



## Performance

### 1. Mechanical Properties

Standard	Grade	Mechanical Properties		
		Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation (A5%)
DNV-OS-F101 API 5L ISO 3183	L245NO/BNO	245-450	415-760	≥ 22
	L290NO/X42NO	290-495	415-760	≥ 21
	L360NO/X52NO	360-565	460-760	≥ 20
	L415QO/X60QO	415-565	520-760	≥ 18
	L450QO/X65QO	450-570	535-760	≥ 18
	L485QO/X70QO	485-605	570-760	≥ 18
	L555QO/X80QO	555-675	625-825	≥ 18

### 2. Chemical Components

Standard	Grade	Chemical Components (%)														
		C max	Si max	Mn max	P max	S max	Cu max	Ni max	Mo max	Cr max	Al (tot) max	Nb max	V max	Ti max	N max	B max
DNV-OS-F101 API 5L ISO 3183	L245NO/BNO	0.14	0.40	1.35	0.02	0.01	0.35	0.30	0.10	0.30	0.06	\	\	\	0.01	0.005
	L290NO/X42NO	0.14	0.40	1.35	0.02	0.01	0.35	0.30	0.10	0.30	0.06	0.04	0.04	0.04	0.01	0.005
	L360NO/X52NO	0.14	0.45	1.65	0.02	0.01	0.50	0.50	0.50	0.50	0.06	0.05	0.05	0.04	0.01	0.005
	L415QO/X60QO	0.14	0.45	1.65	0.02	0.01	0.50	0.50	0.50	0.50	0.06	0.06	0.08	0.06	0.01	0.005
	L450QO/X65QO	0.15	0.45	1.65	0.02	0.01	0.50	0.50	0.50	0.50	0.06	0.06	0.01	0.06	0.01	0.005
	L485QO/X70QO	0.16	0.45	1.75	0.02	0.01	0.50	0.50	0.50	0.50	0.03	0.06	0.10	0.06	0.01	0.005
	L555QO/X80QO	0.16	0.45	1.85	0.02	0.01	0.50	0.50	0.50	0.50	0.06	0.06	0.10	0.06	0.01	0.005

Note:

1. We can produce offshore line pipes with the steel grades as follows:

PSL1: A/L210, B/L245, X42/L290, X46/L320, X52/L360, X56/L390, X60/L415, X65/L450, X70/L485

PSL2: L245N/Q, L290R/N/Q, L320N/Q, L360N/Q, L390N/Q, L415N/Q, L450N/Q, L485N/Q

2. Parameters details about JST submarine line pipe refer to the excel table.

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