

Standart	Kalite	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Al	N	Nb,Ti,B,As,ve W
API Spec. 5 L	A (L210) PS 1	≤0.22	≤0.90		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				
API Spec. 5 L	B (L245) PSL 1	≤0.28	≤1.20		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				Nb+V≥0.06 Nb+V+Ti max. 0.15
API Spec. 5 L	B (L245R) PSL 2	≤0.24	≤1.20		≤0.025	≤0.015	≥0.50	≥0.30	≥0.30	≥0.15				Ti max. 0.04 Nb+V ≥0.06
API Spec. 5 L	X42 (L290) PSL 1	≤0.28	≤1.30		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				Nb+V+Ti max. 0.15
API Spec. 5 L	X42N (L290N) PSL 2	≤0.24	≤1.20		≤0.025	≤0.015	≥0.50	≥0.30	≥0.30	≥0.15	≥0.06			Nb≥ 0.05 Ti max. 0.04
API Spec. 5 L	X46 (L320) PSL 1	≤0.28	≤1.40		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				Nb+V+Ti max. 0.15
API Spec. 5 L	X46N (L320N) PSL 2	≤0.24	≤1.40		≤0.025	≤0.015	≥0.50	≥0.30	≥0.30	≥0.15	≥0.07			Nb max. 0.05 Ti max. 0.04 Nb+V+Ti max. 0.15
API Spec. 5 L	X52 (L360) PSL 1	≤0.28	≤1.40		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				Nb+V+Ti max. 0.15
API Spec. 5 L	X52N (L360N) PSL 2	≤0.24	≤1.40		≤0.025	≤0.015	≥0.50	≥0.30	≥0.30	≥0.15	≥0.10			Nb max. 0.05 Ti max. 0.04 Nb+V+Ti max. 0.15
API Spec. 5 L	X56 (L390) PSL 1	≤0.28	≤1.40		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				Nb+V+Ti max. 0.15
API Spec. 5 L	X56N (L390N) PSL 2	≤0.24	≤1.40		≤0.025	≤0.015	≥0.50	≥0.30	≥0.30	≥0.15	≥0.10			Nb max. 0.05 Ti max. 0.04 Nb+V+Ti max. 0.15
API Spec. 5 L	X60 (L415) PSL 1	≤0.28	≤1.40		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				Nb+V+Ti max. 0.15
API Spec. 5 L	X60N (L415N) PSL 2	≤0.24	≤1.40		≤0.025	≤0.015	≥0.50	≥0.50	≥0.50	≥0.50	≥0.10			Nb max. 0.05 Ti max. 0.04 Nb+V+Ti max. 0.15
API Spec. 5 L	X65 (L450) PSL 1	≤0.28	≤1.40		≤0.030	≤0.030	≥0.50	≥0.50	≥0.50	≥0.15				Nb+V+Ti max. 0.15
API Spec. 5 L	X65Q (L450Q) PSL 2	≤0.18	≤1.70		≤0.025	≤0.015	≥0.50	≥0.50	≥0.50	≥0.50	≥0.10			Nb max. 0.05 Ti max. 0.04 Nb+V+Ti max. 0.15

Standard	Grade	Heat Treatment	Akma Noktası Re min. (Mpa)			Heat Treatment Rm (MPa)	Elongation	Impact (J)	Application Temperature(°C)
			t 0-16 mm	t 16-40 mm	t 40-65 mm		A5 min. (%)		
API Spec. 5 L	A-PSL 1	U,N	207	207	207	≥331		20	
API Spec. 5 L	B-PSL 1	U,N	241	241	241	≥414		20	
API Spec. 5 L	B-PSL 2	U,N	241-448	241-448		414-758	KV=27 (20°C)		
API Spec. 5 L	X 42-PSL 1	U,N	290	290	290	≥414		20	
API Spec. 5 L	X 42-PSL 2	U,N	290-496	290-496		414-758	KV=27 (20°C)		
API Spec. 5 L	X 46-PSL 1	U,N	317	317	317	≥434		20	
API Spec. 5 L	X 46-PSL 2	U,N	317-524	317-524		434-758	KV=27 (20°C)		
API Spec. 5 L	X 52-PSL 1	U,N	359	359	359	≥455		20	
API Spec. 5 L	X 52-PSL 2	U,N	359-531	359-531		455-758	KV=27 (20°C)		
API Spec. 5 L	X 56-PSL 1	U,N	386	386	386	≥490		20	
API Spec. 5 L	X 56-PSL 2	U,N	386-544	386-544		490-758	KV=27 (20°C)		
API Spec. 5 L	X 60- PSL 1	U,N	414	414	414	≥517		20	
API Spec. 5 L	X 60-PSL 2	U,N	414-565	414-565		517-758	KV=27 (20°C)		
t - thickness		U - heat treated			N - normalized				