

# Blue™ Thermal Liner Torque table

# Blue™ Thermal Liner Torque Table | 2 3/8" TO 5 1/2"

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE		YIELD TORQUE	
				Minimum	Optimum	Maximum	Minimum	Maximum		
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	
<b>2 3/8</b>	4.60	0.190	55	1250	1390	1530	210	1180	1540	
			80	1300	1440	1580	220	1220	1850	
			90	1320	1470	1620	220	1250	1980	
			95	1320	1470	1620	220	1250	2040	
			110	1350	1500	1650	230	1280	2240	
	5.10	0.218	125	1380	1530	1680	230	1300	2430	
			55	1390	1540	1690	230	1310	1760	
			80	1440	1600	1760	240	1360	2140	
			90	1470	1630	1790	240	1390	2290	
			95	1470	1630	1790	240	1390	2370	
	5.80	0.254	110	1500	1670	1840	250	1420	2600	
			125	1540	1710	1880	260	1450	2830	
			55	1520	1690	1860	250	1440	1960	
			80	1590	1770	1950	270	1500	2400	
			90	1640	1820	2000	270	1550	2570	
<b>2 7/8</b>	6.40	0.217	95	1640	1820	2000	270	1550	2660	
			110	1670	1860	2050	280	1580	2920	
			125	1720	1910	2100	290	1620	3180	
			55	1930	2140	2350	320	1820	2610	
			80	2030	2250	2480	340	1910	3130	
	7.70	0.276	90	2090	2320	2550	350	1970	3340	
			95	2090	2320	2550	350	1970	3440	
			110	2140	2380	2620	360	2020	3760	
			125	2200	2440	2680	370	2070	4070	
			55	2390	2660	2930	400	2260	3340	
	8.60	0.308	80	2530	2810	3090	420	2390	4040	
			90	2610	2900	3190	440	2470	4320	
			95	2610	2900	3190	440	2470	4460	
			110	2690	2990	3290	450	2540	4890	
			125	2760	3070	3380	460	2610	5310	
<b>3 1/2</b>	9.20	0.254	55	2580	2870	3160	430	2440	3670	
			80	2750	3050	3360	460	2590	4470	
			90	2840	3150	3470	470	2680	4790	
			95	2840	3150	3470	470	2680	4950	
			110	2930	3260	3590	490	2770	5430	
	10.20	0.289	125	3020	3360	3700	500	2860	5910	
			55	2730	3030	3330	450	2580	3820	
			80	2920	3240	3560	490	2750	4690	
			90	3020	3360	3700	500	2860	5040	
			95	3020	3360	3700	500	2860	5220	
	12.70	0.375	110	3140	3490	3840	520	2970	5740	
			125	3250	3610	3970	540	3070	6260	
			55	3130	3480	3830	520	2960	4340	
			80	3340	3710	4080	560	3150	5310	
			90	3460	3840	4220	580	3260	5700	
<b>4 1/2</b>	10.50	0.224	95	3460	3840	4220	580	3260	5900	
			110	3580	3980	4380	600	3380	6480	
			125	3700	4110	4520	620	3490	7070	
			55	3970	4410	4850	660	3750	5220	
			80	4200	4670	5140	700	3970	6310	
	11.60	0.250	90	4350	4830	5310	720	4110	6750	
			95	4350	4830	5310	720	4110	6970	
			110	4490	4990	5490	750	4240	7620	
			125	4630	5140	5650	770	4370	8280	
			55	3630	4030	4430	600	3430	5190	
				80	3780	4200	4620	630	3570	6290
				90	3880	4310	4740	650	3660	6730
				95	3880	4310	4740	650	3660	6950
				110	3980	4420	4860	660	3760	7610
				125	4080	4530	4980	680	3850	8270
			55	3910	4340	4770	650	3690	5530	
			80	4100	4550	5010	680	3870	6710	

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE		YIELD TORQUE
				Minimum	Optimum	Maximum	Minimum	Maximum	
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb
<b>4 1/2</b>	11.60	0.250	90	4200	4670	5140	700	3970	7180
			95	4200	4670	5140	700	3970	7410
			110	4320	4800	5280	720	4080	8110
			125	4430	4920	5410	740	4180	8820
	12.60	0.271	55	4160	4620	5080	690	3930	6060
			80	4390	4880	5370	730	4150	7420
			90	4540	5040	5540	760	4280	7960
			95	4540	5040	5540	760	4280	8230
	13.50	0.290	110	4670	5190	5710	780	4410	9040
			125	4820	5350	5890	800	4550	9850
			55	4460	4960	5460	740	4220	6310
			80	4700	5220	5740	780	4440	7660
15.10	0.337	90	4840	5380	5920	810	4570	8210	
		95	4840	5380	5920	810	4570	8480	
		110	4990	5540	6090	830	4710	10400	
		125	5130	5700	6270	860	4850	10100	
17.00	0.380	55	5360	5960	6560	890	5070	7640	
		80	5650	6280	6910	940	5340	9300	
		90	5830	6480	7130	970	5510	9960	
		95	5830	6480	7130	970	5510	10290	
23.70	0.560	110	6000	6670	7340	1000	5670	10710	
		125	6170	6860	7550	1030	5830	12270	
		55	5790	6430	7070	960	5470	8170	
		80	6130	6810	7490	1020	5790	9940	
5 1/2	15.50	0.275	90	6340	7040	7740	1060	5980	10650
			95	6340	7040	7740	1060	5980	11000
			110	6540	7270	8000	1090	6180	12070
			125	6750	7500	8250	1130	6380	13130
17.00	0.304	55	7780	8640	9500	1300	7340	10960	
		80	8240	9160	10080	1370	7790	13200	
		90	8430	9370	10310	1410	7960	14090	
		95	8430	9370	10310	1410	7960	14540	
20.00	0.361	110	8530	9480	10430	1420	8060	15890	
		125	8810	9790	10770	1470	8320	17230	
		55	4550	5050	5560	760	4290	10580	
		80	4890	5430	5970	810	4620	13620	
23.00	0.415	90	5090	5650	6220	850	4800	14830	
		95	5090	5650	6220	850	4800	15440	
		110	5290	5880	6470	880	5000	17270	
		125	5500	6110	6720	920	5190	19090	
26.00	0.476	55	4970	5520	6070	830	4690	11550	
		80	5380	5980	6580	900	5080	14930	
		90	5630	6250	6880	940	5310	16290	
		95	5630	6250	6880	940	5310	16960	
26.00	0.476	110	5870	6520	7170	980	5540	18990	
		125	6120	6800	7480	1020	5780	21020	
		55	5680	6310	6940	950	5360	12740	
		80	6210	6900	7590	1040	5870	16480	
26.00	0.476	90	6520	7240	7960	1090	6150	17970	
		95	6520	7240	7960	1090	6150	18720	
		110	6830	7590	8350	1140	6450	20970	
		125	7150	7940	8730	1190	6750	23210	
26.00	0.476	55	6550	7280	8010	1090	6190	14390	
		80	7150	7940	8730	1190	6750	18550	
		90	7500	8330	9160	1250	7080	20220	
		95	7500	8330	9160	1250	7080	21050	
26.00	0.476	110	7860	8730	9600	1310	7420	23550	
		125	8210	9120	10030	1370	7750	26050	
		55	7460	8290	9120	1240	7050	15540	
		80	8080	8980	9880	1350	7630	19860	
26.00	0.476	90	8460	9400	10340	1410	7990	21580	
		95	8460	9400	10340	1410	7990	22450	

# 5 1/2" TO 9 5/8"

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE		YIELD TORQUE
				Minimum	Optimum	Maximum	Minimum	Maximum	
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb
<b>5 1/2</b>	26.00	0.476	110	8840	9820	10800	1470	8350	25030
			125	9220	10240	11260	1540	8700	27620
			55	7730	8590	9450	1290	7300	16120
			80	8420	9350	10290	1400	7950	20630
			90	8820	9800	10780	1470	8330	22430
	26.80	0.500	95	8820	9800	10780	1470	8330	23340
			110	9230	10250	11280	1540	8710	26040
			125	9630	10700	11770	1610	9100	28750
			55	7420	8240	9060	1240	7000	17370
			80	8020	8910	9800	1340	7570	22460
<b>6 5/8</b>	24.00	0.352	90	8380	9310	10240	1400	7910	24490
			95	8380	9310	10240	1400	7910	25510
			110	8740	9710	10680	1460	8250	28560
			125	9100	10110	11120	1520	8590	31610
			55	8660	9620	10580	1440	8180	20310
	28.00	0.417	80	9490	10540	11590	1580	8960	26450
			90	9980	11090	12200	1660	9430	28910
			95	9980	11090	12200	1660	9430	30130
			110	10480	11640	12800	1750	9890	33820
			125	10970	12190	13410	1830	10360	37500
32.00	0.475	55	9740	10820	11900	1620	9200	23110	
		80	10790	11990	13190	1800	10190	30300	
		90	11410	12680	13950	1900	10780	33180	
		95	11410	12680	13950	1900	10780	34620	
		110	12040	13380	14720	2010	11370	38930	
<b>7</b>	20.00	0.272	125	12670	14080	15490	2110	11970	43250
			55	6390	7100	7810	1070	6040	14390
			80	6980	7750	8530	1160	6590	18360
			90	7200	8000	8800	1200	6800	19940
			95	7200	8000	8800	1200	6800	20740
	23.00	0.317	110	7320	8130	8940	1220	6910	23120
			125	7670	8520	9370	1280	7240	24700
			55	7500	8330	9160	1250	7080	17200
			80	8060	8950	9850	1340	7610	22180
			90	8380	9310	10240	1400	7910	24170
26.00	0.362	95	8380	9310	10240	1400	7910	25170	
		110	8710	9680	10650	1450	8230	28160	
		125	9050	10050	11060	1510	8540	31150	
		55	8510	9450	10400	1420	8030	19780	
		80	9230	10260	11290	1540	8720	25670	
29.00	0.408	90	9680	10750	11830	1610	9140	28020	
		95	9680	10750	11830	1610	9140	29200	
		110	10110	11230	12350	1680	9550	32730	
		125	10550	11720	12890	1760	9960	36270	
		55	9410	10460	11510	1570	8890	21170	
32.00	0.453	80	10310	11450	12600	1720	9730	27480	
		90	10840	12040	13240	1810	10230	30010	
		95	10840	12040	13240	1810	10230	31270	
		110	11370	12630	13890	1890	10740	35060	
		125	11910	13230	14550	1980	11250	38848	
32.00	0.453	55	10500	11670	12840	1750	9920	24800	
		80	11540	12820	14100	1920	10900	32480	
		90	12160	13510	14860	2030	11480	35550	
		95	12160	13510	14860	2030	11480	37090	
		110	12780	14200	15620	2130	12070	41700	
			125	13400	14890	16380	2230	12660	46310

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE		YIELD TORQUE	
				Minimum	Optimum	Maximum	Minimum	Maximum		
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	
<b>7</b>	35.00	0.498	55	11490	12770	14050	1920	10850	27080	
			80	12680	14090	15500	2110	11980	35530	
			90	13400	14890	16380	2230	12660	38910	
			95	13400	14890	16380	2230	12660	40600	
			110	14110	15680	17250	2350	13330	45670	
			125	14820	16470	18120	2470	14000	50740	
<b>8 5/8</b>	24.00	0.264	55	6820	7580	8340	1140	6440	18740	
			80	7580	8420	9260	1260	7160	24310	
			90	7880	8750	9630	1310	7440	26540	
			95	7880	8750	9630	1310	7440	27650	
			110	8480	9420	10360	1410	8010	31000	
		28.00	0.304	125	8930	9920	10910	1490	8430	34340
	55			7680	8530	9380	1280	7250	20200	
	80			8610	9570	10530	1440	8130	26420	
	90			8990	9990	10990	1500	8490	28910	
	95			8990	9990	10990	1500	8490	30150	
		32.00	0.352	110	9740	10820	11900	1620	9200	33880
	125			10310	11450	12600	1720	9730	37610	
	55			8650	9610	10570	1440	8170	21920	
	80			9840	10930	12020	1640	9290	28900	
	90			10310	11460	12610	1720	9740	31690	
		36.00	0.400	95	10310	11460	12610	1720	9740	33080
	110			11260	12510	13760	1880	10630	37270	
	125			11980	13310	14640	2000	11310	41450	
	55			9350	10390	11430	1560	8830	27500	
	80			10780	11980	13180	1800	10180	36630	
	40.00	0.450	90	11360	12620	13880	1890	10730	40280	
95			11360	12620	13880	1890	10730	42110		
110			12510	13900	15290	2090	11820	47580		
125			13370	14850	16340	2230	12620	53060		
55			10110	11230	12350	1680	9550	29410		
	43.50	0.435	80	11800	13110	14420	1970	11140	39380	
90			12470	13860	15250	2080	11780	43360		
95			12470	13860	15250	2080	11780	45350		
110			13830	15370	16910	2310	13060	51330		
125			14850	16500	18150	2480	14030	57310		
<b>9 5/8</b>	36.00	0.352	55	9860	10960	12060	1640	9320	35660	
			80	11310	12570	13830	1890	10680	44380	
			90	11890	13210	14530	1980	11230	47870	
			95	11890	13210	14530	1980	11230	49610	
			110	13040	14490	15940	2170	12320	54850	
		40.00	0.395	125	13910	15450	17000	2320	13130	60080
	55			10830	12030	13230	1800	10230	37510	
	80			12550	13940	15330	2090	11850	47090	
	90			13230	14700	16170	2210	12500	50910	
	95			13230	14700	16170	2210	12500	52830	
		47.00	0.472	110	14600	16220	17840	2430	13790	58570
	125			15620	17360	19100	2600	14760	64310	
	55			12010	13340	14670	2000	11340	41990	
	80			13760	15290	16820	2290	13000	52340	
	90			14470	16080	17690	2410	13670	56490	
		53.50	0.545	95	14470	16080	17690	2410	13670	58560
	110			15880	17640	19400	2650	14990	64770	
	125			16930	18810	20690	2820	15990	70980	
	55			12560	13960	15360	2090	11870	45870	
	80			14680	16310	17940	2450	13860	57990	
			90	15530	17250	18980	2590	14660	62840	
95			15530	17250	18980	2590	14660	65270		
110			17230	19140	21050	2870	16270	72540		
125			18500	20550	22610	3080	17470	79810		
55			14340	15930	17520	2390	13540	52910		
			80	16610	18450	20300	2770	15680	66570	

# 9 5/8" TO 10 3/4"

SIZE (OD)	NOMINAL WEIGHT	WALL THICKNESS	SMYS OF STEEL GRADE	MAKE UP TORQUE			SHOULDER TORQUE		YIELD TORQUE
				Minimum	Optimum	Maximum	Minimum	Maximum	
in	lb/ft	in	ksi	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb	ft.lb
<b>9 5/8</b>	53.50	0.545	90	17510	19460	21410	2920	16540	72030
			95	17510	19460	21410	2920	16540	74760
			110	19330	21480	23630	3220	18260	82950
			125	20690	22990	25290	3450	19540	91140
<b>10 3/4</b>	45.50	0.400	55	12670	14080	15490	2110	11970	46970
			80	14700	16330	17960	2450	13880	59130
			90	15510	17230	18950	2580	14650	64000
			95	15510	17230	18950	2580	14650	66430
			110	17130	19030	20930	2850	16180	73730
			125	18340	20380	22420	3060	17320	81030
	51.00	0.450	55	13960	15510	17060	2330	13180	49680
			80	16370	18190	20010	2730	15460	63080
			90	17340	19270	21200	2890	16380	68450
			95	17340	19270	21200	2890	16380	71130
			110	19270	21410	23550	3210	18200	79170
			125	20720	23020	25320	3450	19570	87210
	55.50	0.495	55	15420	17130	18840	2570	14560	55510
			80	17890	19880	21870	2980	16900	70000
			90	18880	20980	23080	3150	17830	75800
			95	18880	20980	23080	3150	17830	78700
110			20860	23180	25500	3480	19700	87390	
125			22350	24830	27310	3720	21110	96080	
60.70	0.545	55	16330	18140	19950	2720	15420	61500	
		80	19350	21500	23650	3230	18280	78710	
		90	20560	22840	25120	3430	19410	85600	
		95	20560	22840	25120	3430	19410	89040	
		110	22980	25530	28080	3830	21700	99370	
		125	24790	27540	30290	4130	23410	109690	

- SMYS: Specified Minimum Yield Strength.
- An appropriate safety factor should be applied to these yield torque values.
- For other unlisted combinations of dimension and SMYS please contact [premiumconnections@tenaris.com](mailto:premiumconnections@tenaris.com)



For contact information, please visit  
our website: [www.tenaris.com](http://www.tenaris.com)