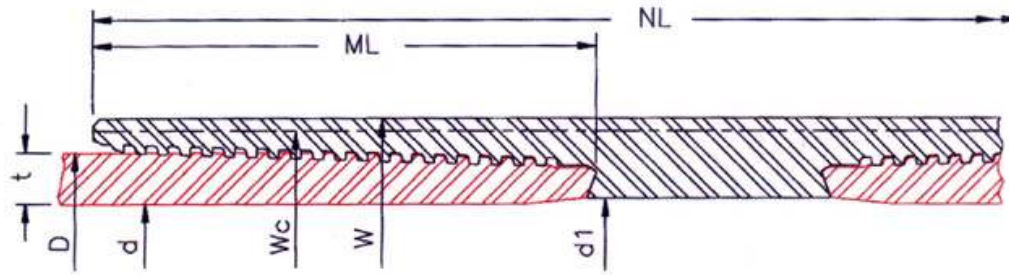


# TECHNICAL INFORMATION

# TUBING

SIZE:	4 1/2 "
NOMINAL WEIGHT:	10.50 lb/ft
WALL THICKNESS:	0.224 "
THREADS PER INCH:	6



PIPE BODY	OUTSIDE DIA.(in)D	4.500	INSIDE DIA.(in) d	4.052	DRIFT DIA. (in)			3.927	PLAIN END WT (lb/ft)		10.23
	GRADE		K55	N80	L80	C90	C95	P110	Q125	150	
	COLLAPSE RESISTANCE (psi)		4010	4940	4940	5200	5310	5550	5820	6240	
	INTERNAL YIELD PRESSURE (psi)		4790	6970	6970	7840	8280	9580	10890	13070	
	BODY YIELD STRENGTH (kips)		166	241	241	271	286	331	376	451	
	ULTIMATE STRENGTH (kips)		286	301	286	301	316	376	406	481	
	YIELD TORQUE (ft/lb)		16200	23600	23600	26500	28000	32400	36900	44200	

MAKEUP	RECOMMENDED MAKEUP TORQUE USING A THREAD COMPOUND WITH FRICTION CORRECTION FACTOR OF 1.0									
	REGULAR	MINIMUM (ft/lb)	3060	4040	4040	4690	4690	5280	5930	6840
		OPTIMUM (ft/lb)	3400	4480	4480	5210	5210	5860	6580	7590
		MAXIMUM (ft/lb)	3740	4920	4920	5730	5730	6440	7230	8340
	SPECIAL CLEARANCE	MINIMUM (ft/lb)	2720	3600	3600	4170	4170	4700	5280	6090
		OPTIMUM (ft/lb)	3060	4040	4040	4690	4690	5280	5930	6840
MAXIMUM (ft/lb)		3400	4480	4480	5210	5210	5860	6580	7590	

CONNECTION	COLLAPSE RESISTANCE (psi)		4010	4940	4940	5200	5310	5550	5820	6240
	INTERNAL YIELD PRESSURE (psi)		4790	6970	6970	7840	8280	9580	10890	13070
	MAXIMUM LOAD OF REG. COUPLING FACE (kips)		89	129	129	145	153	177	202	242
	MAXIMUM LOAD OF S.C. COUPLING FACE (kips)		68	99	99	112	118	136	155	186
	PARTING LOAD (kips)									
	REGULAR COUPLING O.D.		249	274	262	279	293	347	378	449
	SPECIAL CLEARANCE COUPLING O.D.		249	274	262	279	293	347	378	449
			OUTSIDE DIA.(in)	INSIDE DIA.(in)	WEIGHT (lb)		JOINT EFFICIENCY (%)		30' JOINT MUD DISPLACEMENT (in <sup>3</sup> )	
	REGULAR COUPLING		W	4.862	3.994	10.20		114		1111
	SPECIAL CLEARANCE COUPLING		Wc	4.813	3.994	9.17		101		1107
LENGTH OF COUPLING (in)		NL	9.821		The above information is for reference only. The information is subject to change or modification without notice. Please contact HSC for the latest information					
MAKE UP LOSS (in)		ML	3.969							