FET | Global Tubing

# Coiled Tubing Technical Data

## MECHANICAL PROPERTIES

| | |
|---|---|
| **Specified Min Yield Strength (SMYS)** | 110,000 psi |
| **Specified Min Tensile Strength (SMTS)** | 118,000 psi |
| **Max Hardness** | 33 HRC |
| **Min. Elongation, % (2” Gage Length)** | Per API: $Min\% = 625000 * Area^{0.2} / SMTS^{0.9}$ |

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| Specified Dimensions | | | | Axial Load Capacity | | Pressure Capacity | | Torsional Strength | | External Displacement per 1,000 ft | | Internal Capacity per 1,000 ft | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OD D (in) | WT t (in) | ID d (in) | Nominal Weight w (lb/ft) | Yield Load Ly (lb) tnom | Tensile Load Lt (lb) tnom | Yield Pressure Yp (psi) | Hydrotest Pressure Hp (psi) | Yield (ft.lbf) tmin | Ultimate (ft.lbf) tmin | Gallons | Barrels | Gallons | Barrels |
| 1.250 | 0.109 | 1.032 | 1.33 | 42,980 | 46,100 | 18,300 | 15,000 | 1,050 | 1,126 | 63.75 | 1.52 | 43.45 | 1.03 |
| 1.250 | 0.116 | 1.018 | 1.41 | 45,460 | 48,760 | 19,540 | 15,000 | 1,101 | 1,181 | 63.75 | 1.52 | 42.28 | 1.01 |
| 1.250 | 0.125 | 1.000 | 1.51 | 48,600 | 52,130 | 20,770 | 15,000 | 1,151 | 1,234 | 63.75 | 1.52 | 40.80 | 0.97 |
| 1.250 | 0.134 | 0.982 | 1.60 | 51,680 | 55,440 | 22,350 | 15,000 | 1,211 | 1,300 | 63.75 | 1.52 | 39.34 | 0.94 |
| 1.250 | 0.145 | 0.960 | 1.72 | 55,370 | 59,400 | 24,290 | 15,000 | 1,281 | 1,375 | 63.75 | 1.52 | 37.60 | 0.90 |
| 1.250 | 0.156 | 0.938 | 1.83 | 58,980 | 63,270 | 26,220 | 15,000 | 1,347 | 1,445 | 63.75 | 1.52 | 35.90 | 0.85 |
| 1.250 | 0.175 | 0.900 | 2.01 | 65,010 | 69,740 | 29,570 | 15,000 | 1,449 | 1,555 | 63.75 | 1.52 | 33.05 | 0.79 |
| 1.250 | 0.190 | 0.870 | 2.16 | 69,600 | 74,660 | 31,680 | 15,000 | 1,508 | 1,618 | 63.75 | 1.52 | 30.88 | 0.74 |
| 1.250 | 0.204 | 0.842 | 2.28 | 73,740 | 79,100 | 34,140 | 15,000 | 1,571 | 1,685 | 63.75 | 1.52 | 28.93 | 0.69 |
| 1.500 | 0.109 | 1.282 | 1.62 | 52,400 | 56,210 | 15,250 | 13,730 | 1,577 | 1,691 | 91.80 | 2.19 | 67.06 | 1.60 |
| 1.500 | 0.116 | 1.268 | 1.72 | 55,480 | 59,520 | 16,280 | 14,650 | 1,659 | 1,780 | 91.80 | 2.19 | 65.60 | 1.56 |
| 1.500 | 0.125 | 1.250 | 1.84 | 59,400 | 63,720 | 17,310 | 15,000 | 1,739 | 1,865 | 91.80 | 2.19 | 63.75 | 1.52 |
| 1.500 | 0.134 | 1.232 | 1.96 | 63,260 | 67,860 | 18,630 | 15,000 | 1,837 | 1,971 | 91.80 | 2.19 | 61.93 | 1.47 |
| 1.500 | 0.145 | 1.210 | 2.10 | 67,900 | 72,840 | 20,240 | 15,000 | 1,952 | 2,094 | 91.80 | 2.19 | 59.74 | 1.42 |
| 1.500 | 0.156 | 1.188 | 2.24 | 72,450 | 77,720 | 21,850 | 15,000 | 2,061 | 2,211 | 91.80 | 2.19 | 57.58 | 1.37 |
| 1.500 | 0.175 | 1.150 | 2.48 | 80,130 | 85,960 | 24,640 | 15,000 | 2,235 | 2,398 | 91.80 | 2.19 | 53.96 | 1.28 |
| 1.500 | 0.190 | 1.120 | 2.66 | 86,010 | 92,270 | 26,400 | 15,000 | 2,337 | 2,507 | 91.80 | 2.19 | 51.18 | 1.22 |
| 1.500 | 0.204 | 1.092 | 2.83 | 91,360 | 98,010 | 28,450 | 15,000 | 2,448 | 2,626 | 91.80 | 2.19 | 48.65 | 1.16 |
| 1.500 | 0.224 | 1.052 | 3.06 | 98,770 | 105,960 | 31,390 | 15,000 | 2,592 | 2,781 | 91.80 | 2.19 | 45.15 | 1.08 |
| 1.750 | 0.109 | 1.532 | 1.91 | 61,810 | 66,310 | 13,070 | 11,760 | 2,212 | 2,373 | 124.95 | 2.97 | 95.76 | 2.28 |
| 1.750 | 0.116 | 1.518 | 2.03 | 65,500 | 70,270 | 13,950 | 12,560 | 2,332 | 2,502 | 124.95 | 2.97 | 94.02 | 2.24 |
| 1.750 | 0.125 | 1.500 | 2.17 | 70,200 | 75,300 | 14,830 | 13,350 | 2,449 | 2,627 | 124.95 | 2.97 | 91.80 | 2.19 |
| 1.750 | 0.134 | 1.482 | 2.32 | 74,830 | 80,270 | 15,970 | 14,370 | 2,595 | 2,784 | 124.95 | 2.97 | 89.61 | 2.13 |
| 1.750 | 0.145 | 1.460 | 2.49 | 80,420 | 86,270 | 17,350 | 15,000 | 2,766 | 2,967 | 124.95 | 2.97 | 86.97 | 2.07 |
| 1.750 | 0.156 | 1.438 | 2.66 | 85,930 | 92,180 | 18,730 | 15,000 | 2,930 | 3,143 | 124.95 | 2.97 | 84.37 | 2.01 |
| 1.750 | 0.175 | 1.400 | 2.95 | 95,250 | 102,180 | 21,120 | 15,000 | 3,195 | 3,428 | 124.95 | 2.97 | 79.97 | 1.90 |
| 1.750 | 0.204 | 1.342 | 3.38 | 108,990 | 116,920 | 24,390 | 15,000 | 3,526 | 3,782 | 124.95 | 2.97 | 73.48 | 1.75 |
| 1.750 | 0.224 | 1.302 | 3.66 | 118,130 | 126,720 | 26,900 | 15,000 | 3,755 | 4,028 | 124.95 | 2.97 | 69.16 | 1.65 |
| 1.750 | 0.236 | 1.278 | 3.83 | 123,480 | 132,460 | 28,410 | 15,000 | 3,883 | 4,166 | 124.95 | 2.97 | 66.64 | 1.59 |
| 1.750 | 0.250 | 1.250 | 4.01 | 129,590 | 139,020 | 30,170 | 15,000 | 4,024 | 4,317 | 124.95 | 2.97 | 63.75 | 1.52 |
| 2.000 | 0.109 | 1.782 | 2.21 | 71,230 | 76,410 | 11,440 | 10,300 | 2,955 | 3,170 | 163.20 | 3.89 | 129.56 | 3.08 |
| 2.000 | 0.116 | 1.768 | 2.34 | 75,520 | 81,020 | 12,210 | 10,990 | 3,121 | 3,348 | 163.20 | 3.89 | 127.53 | 3.04 |
| 2.000 | 0.125 | 1.750 | 2.51 | 80,990 | 86,880 | 12,980 | 11,680 | 3,282 | 3,521 | 163.20 | 3.89 | 124.95 | 2.97 |
| 2.000 | 0.134 | 1.732 | 2.68 | 86,410 | 92,690 | 13,970 | 12,570 | 3,484 | 3,738 | 163.20 | 3.89 | 122.39 | 2.91 |
| 2.000 | 0.145 | 1.710 | 2.88 | 92,950 | 99,710 | 15,180 | 13,660 | 3,723 | 3,994 | 163.20 | 3.89 | 119.30 | 2.84 |
| 2.000 | 0.156 | 1.688 | 3.08 | 99,410 | 106,640 | 16,390 | 14,750 | 3,953 | 4,241 | 163.20 | 3.89 | 116.25 | 2.77 |
| 2.000 | 0.175 | 1.650 | 3.42 | 110,370 | 118,400 | 18,480 | 15,000 | 4,330 | 4,644 | 163.20 | 3.89 | 111.08 | 2.64 |
| 2.000 | 0.190 | 1.620 | 3.68 | 118,840 | 127,490 | 19,800 | 15,000 | 4,554 | 4,886 | 163.20 | 3.89 | 107.08 | 2.55 |
| 2.000 | 0.204 | 1.592 | 3.92 | 126,610 | 135,820 | 21,340 | 15,000 | 4,805 | 5,154 | 163.20 | 3.89 | 103.41 | 2.46 |
| 2.000 | 0.224 | 1.552 | 4.26 | 137,480 | 147,480 | 23,540 | 15,000 | 5,140 | 5,514 | 163.20 | 3.89 | 98.27 | 2.34 |
| 2.000 | 0.236 | 1.528 | 4.46 | 143,860 | 154,330 | 24,860 | 15,000 | 5,329 | 5,717 | 163.20 | 3.89 | 95.26 | 2.27 |
| 2.000 | 0.250 | 1.500 | 4.68 | 151,190 | 162,190 | 26,400 | 15,000 | 5,540 | 5,942 | 163.20 | 3.89 | 91.80 | 2.19 |
| 2.000 | 0.276 | 1.448 | 5.09 | 164,430 | 176,390 | 29,260 | 15,000 | 5,900 | 6,329 | 163.20 | 3.89 | 85.55 | 2.04 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OD D (in) | WT t (in) | ID d (in) | Nominal Weight w (lb/ft) | Yield Load Ly (lb) tnom | Tensile Load Lt (lb) tnom | Yield Pressure Yp (psi) | Hydrotest Pressure Hp (psi) | Yield (ft.lbf) tmin | Ultimate (ft.lbf) tmin | Gallons | Barrels | Gallons | Barrels |
| 2.375 | 0.125 | 2.125 | 3.01 | 97,190 | 104,260 | 10,930 | 9,840 | 4,762 | 5,108 | 230.14 | 5.48 | 184.24 | 4.39 |
| 2.375 | 0.134 | 2.107 | 3.21 | 103,770 | 111,320 | 11,760 | 10,580 | 5,066 | 5,434 | 230.14 | 5.48 | 181.13 | 4.31 |
| 2.375 | 0.145 | 2.085 | 3.46 | 111,740 | 119,870 | 12,780 | 11,500 | 5,428 | 5,822 | 230.14 | 5.48 | 177.37 | 4.22 |
| 2.375 | 0.156 | 2.063 | 3.71 | 119,630 | 128,330 | 13,800 | 12,420 | 5,778 | 6,198 | 230.14 | 5.48 | 173.64 | 4.13 |
| 2.375 | 0.175 | 2.025 | 4.12 | 133,050 | 142,720 | 15,560 | 14,000 | 6,358 | 6,820 | 230.14 | 5.48 | 167.30 | 3.98 |
| 2.375 | 0.190 | 1.995 | 4.44 | 143,470 | 153,900 | 16,670 | 15,000 | 6,708 | 7,196 | 230.14 | 5.48 | 162.38 | 3.87 |
| 2.375 | 0.204 | 1.967 | 4.74 | 153,050 | 164,180 | 17,970 | 15,000 | 7,100 | 7,617 | 230.14 | 5.48 | 157.86 | 3.76 |
| 2.375 | 0.224 | 1.927 | 5.16 | 166,510 | 178,620 | 19,820 | 15,000 | 7,633 | 8,188 | 230.14 | 5.48 | 151.50 | 3.61 |
| 2.375 | 0.236 | 1.903 | 5.40 | 174,450 | 187,140 | 20,930 | 15,000 | 7,937 | 8,515 | 230.14 | 5.48 | 147.75 | 3.52 |
| 2.375 | 0.250 | 1.875 | 5.69 | 183,590 | 196,940 | 22,230 | 15,000 | 8,278 | 8,880 | 230.14 | 5.48 | 143.44 | 3.42 |
| 2.375 | 0.276 | 1.823 | 6.20 | 200,200 | 214,760 | 24,640 | 15,000 | 8,873 | 9,518 | 230.14 | 5.48 | 135.59 | 3.23 |
| 2.625 | 0.134 | 2.357 | 3.57 | 115,350 | 123,740 | 10,640 | 9,580 | 6,285 | 6,742 | 281.14 | 6.69 | 226.66 | 5.40 |
| 2.625 | 0.145 | 2.335 | 3.85 | 124,270 | 133,310 | 11,570 | 10,410 | 6,743 | 7,234 | 281.14 | 6.69 | 222.45 | 5.30 |
| 2.625 | 0.156 | 2.313 | 4.12 | 133,100 | 142,780 | 12,490 | 11,240 | 7,188 | 7,711 | 281.14 | 6.69 | 218.28 | 5.20 |
| 2.625 | 0.175 | 2.275 | 4.59 | 148,170 | 158,940 | 14,080 | 12,670 | 7,928 | 8,505 | 281.14 | 6.69 | 211.16 | 5.03 |
| 2.625 | 0.190 | 2.245 | 4.95 | 159,880 | 171,510 | 15,090 | 13,580 | 8,377 | 8,986 | 281.14 | 6.69 | 205.63 | 4.90 |
| 2.625 | 0.204 | 2.217 | 5.29 | 170,670 | 183,090 | 16,260 | 14,630 | 8,882 | 9,528 | 281.14 | 6.69 | 200.53 | 4.77 |
| 2.625 | 0.224 | 2.177 | 5.76 | 185,860 | 199,380 | 17,940 | 15,000 | 9,573 | 10,269 | 281.14 | 6.69 | 193.36 | 4.60 |
| 2.625 | 0.236 | 2.153 | 6.04 | 194,840 | 209,010 | 18,940 | 15,000 | 9,969 | 10,694 | 281.14 | 6.69 | 189.12 | 4.50 |
| 2.625 | 0.250 | 2.125 | 6.36 | 205,190 | 220,110 | 20,110 | 15,000 | 10,415 | 11,173 | 281.14 | 6.69 | 184.24 | 4.39 |
| 2.625 | 0.276 | 2.073 | 6.94 | 224,050 | 240,340 | 22,290 | 15,000 | 11,199 | 12,013 | 281.14 | 6.69 | 175.33 | 4.17 |
| 2.875 | 0.145 | 2.585 | 4.24 | 136,800 | 146,750 | 10,560 | 9,500 | 8,202 | 8,798 | 337.24 | 8.03 | 272.63 | 6.49 |
| 2.875 | 0.156 | 2.563 | 4.54 | 146,580 | 157,240 | 11,400 | 10,260 | 8,753 | 9,390 | 337.24 | 8.03 | 268.01 | 6.38 |
| 2.875 | 0.175 | 2.525 | 5.06 | 163,280 | 175,160 | 12,860 | 11,570 | 9,673 | 10,376 | 337.24 | 8.03 | 260.12 | 6.19 |
| 2.875 | 0.190 | 2.495 | 5.46 | 176,300 | 189,120 | 13,770 | 12,390 | 10,233 | 10,977 | 337.24 | 8.03 | 253.98 | 6.05 |
| 2.875 | 0.204 | 2.467 | 5.83 | 188,300 | 201,990 | 14,850 | 13,370 | 10,866 | 11,656 | 337.24 | 8.03 | 248.31 | 5.91 |
| 2.875 | 0.224 | 2.427 | 6.36 | 205,210 | 220,140 | 16,380 | 14,740 | 11,734 | 12,588 | 337.24 | 8.03 | 240.32 | 5.72 |
| 2.875 | 0.236 | 2.403 | 6.67 | 215,230 | 230,880 | 17,290 | 15,000 | 12,235 | 13,125 | 337.24 | 8.03 | 235.60 | 5.61 |
| 2.875 | 0.250 | 2.375 | 7.03 | 226,780 | 243,280 | 18,370 | 15,000 | 12,801 | 13,732 | 337.24 | 8.03 | 230.14 | 5.48 |
| 2.875 | 0.276 | 2.323 | 7.68 | 247,890 | 265,920 | 20,350 | 15,000 | 13,801 | 14,805 | 337.24 | 8.03 | 220.17 | 5.24 |

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