



Control Line & Flatpack

Make energy exploration more efficient, more reliable and safe

Jason Energy Technology Co., Ltd., as a globally leading tube manufacturer, has always aimed at making energy exploration more efficient, more reliable and safer, striving to create the best tube products.

We focus on the design, development, and manufacturing of coiled tubing products, control lines, and Flatpack systems. Adhering to the R&D spirit of diligence, dedication to research, pursuit of excellence, and creating with heart, we continuously enhance the core competitiveness of our products. Jason Company always focus on customer needs. carefully crafting each inch of tube, providing high-quality, diverse, and customizable coiled tubing and capillary tube products for global customers, maximizing the satisfaction of different customer needs.

Control Line

Small-diameter corrosion-resistant alloy longitudinally welded continuous tubing is available for applications including downhole valve control, chemical injection, and hydraulic control lines. In addition, continuous metal armored tubing with integrated electrical cables can be supplied. Leveraging customized manufacturing capabilities, tubing products are offered with various surface qualities and strength grades to meet the requirements of diverse and complex operating environments.



Table 1 Control Line Chemical Composition

| UNS | Material | C | Si | Mn | P | S | Cr | Ni | Mo | Cu | N |
|--------|----------|--------|--------|--------|---------|--------|-----------|-----------|-----------|--------|-----------|
| S31603 | 316L | ≤ 0.03 | ≤ 0.75 | ≤ 2.00 | ≤ 0.045 | ≤ 0.03 | 16.0-18.0 | 10.0-14.0 | 2.00-3.00 | — | ≤ 0.10 |
| S32205 | 2205 | ≤ 0.03 | ≤ 1.00 | ≤ 2.00 | ≤ 0.03 | ≤ 0.02 | 22.0-23.0 | 4.5-6.5 | 3.0-3.5 | — | 0.14-0.20 |
| S32750 | 2507 | ≤ 0.03 | ≤ 0.80 | ≤ 1.20 | ≤ 0.035 | ≤ 0.02 | 24.0-26.0 | 6.0-8.0 | 3.0-5.0 | ≤ 0.50 | 0.24-0.32 |

Table 2 Nickel-based Control Line Chemical Composition

| UNS | Material | C | Si | Mn | P | S | Cr | Ni | Mo |
|--------|----------|--------|-------|-------|---------|---------|-----------|-----------|--------|
| N08825 | 825 | ≤ 0.05 | ≤ 0.5 | ≤ 1.0 | — | ≤ 0.03 | 19.5-23.5 | 38.0-46.0 | ≥ 22.0 |
| N06625 | 625 | ≤ 0.1 | ≤ 0.5 | ≤ 0.5 | ≤ 0.015 | ≤ 0.015 | 20.0-23.0 | ≥ 58.0 | ≤ 5.0 |

| UNS | Material | Ti | Co | Cu | Nb+Ta | Al | Mo |
|--------|----------|---------|-------|---------|-----------|-------|----------|
| N08825 | 825 | 0.6-1.2 | — | 1.5-3.0 | — | ≤ 0.2 | 2.5-3.5 |
| N06625 | 625 | ≤ 0.4 | ≤ 1.0 | — | 3.15-4.15 | ≤ 0.4 | 8.0-10.0 |

Table 3 Annealing Heat Treatment Product Performance Parameter

| UNS | Material | Hardness Max | Tensile Strength Min, ksi | Yeild Strength Min, ksi | Yeild Strength Min, % |
|--------|----------|--------------|---------------------------|-------------------------|-----------------------|
| S31603 | 316L | 200HV/90HRB | 70000 | 25000 | 35 |
| S31603 | 316L | 200HV/90HRB | 70000 | 30000 | 35 |
| S32205 | 2205 | 290HV/30HRC | 95000 | 70000 | 25 |
| S32205 | 2205 | 290HV/30HRC | 95000 | 80000 | 25 |
| S32750 | 2507 | 300HV/32HRC | 116000 | 80000 | 15 |
| N08825 | N08825 | — | 85000 | 35000 | 30 |
| N08825 | N08825 | — | 95000 | 65000 | 20 |
| N08825 | N08825 | — | 108000 | 90000 | 5 |
| N06625 | N06625 | — | 120000 | 60000 | 30 |

Table 4 Size Specification Sheet for Main Contracted Control Lines and Cables

| Out Diameter | | Wall Thickness | | | | |
|--------------|--------|----------------|-------|--------|-------|-------|
| Unit | In | 0.028 | 0.035 | 0.049 | 0.065 | 0.083 |
| In | mm | 0.711 | 0.889 | 1.2446 | 1.651 | 2.11 |
| 0.125 | 3.175 | O | — | — | — | — |
| 0.250 | 6.350 | O | O | O | O | — |
| 0.375 | 9.525 | — | O | O | O | O |
| 0.500 | 12.700 | — | O | O | O | O |
| 0.625 | 15.880 | — | — | O | O | O |

Note:

- 1) Marked "O" refers to the main specifications and sizes.
- 2) Other specifications can be customized according to customer needs.

TEC/Flat Pack Products

Extrusion package can be applied such as control lines, cables, fibers and other products, and supplies CL/TEC/TEF/Flat Pack products. According to customer needs, single or multiple channels of different types can be packaged, designed and manufactured to meet the needs of different working conditions.

Available packaging materials include but are not limited to the table below.

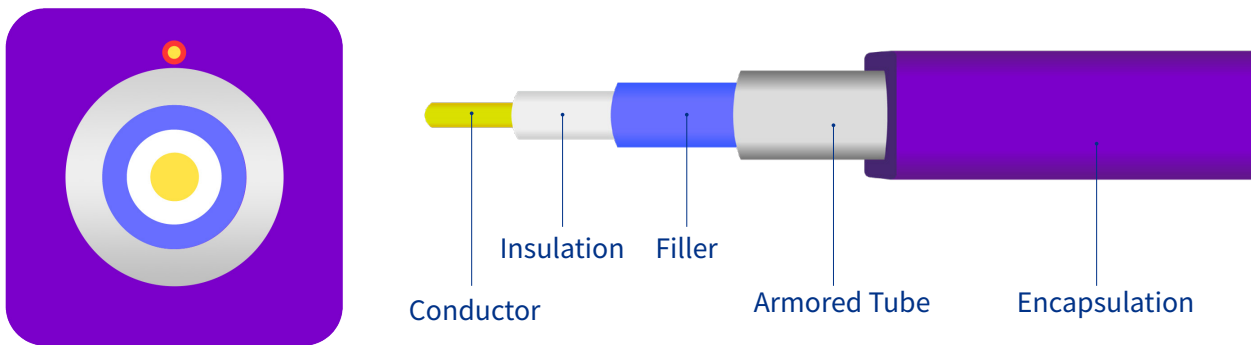


Table 6 Materials For Packaging, Filling, and Insulation

| Material Abbreviation | Applicable Temperature°C | Applicable Temperature°C |
|-----------------------|------------------------------------------|--------------------------|
| FEP | Fluoronated Ethylene Propylene Copolymer | -70°C ~200°C |
| PFA | Perfluoroalkoxy Alkane | -70°C ~260°C |
| ETFE | Ethylene Tetra Fluoroethylene Copolymer | -60°C ~150°C |
| PVDF | Polyvinylidene Fluoride | -30°C ~150°C |
| PP | Polypropylene | -30°C ~130°C |
| TPV | Thermoplastic Vulcanizate | -30°C ~150 °C |
| PA | Polyamide (Nylon) | -30°C ~ 95°C |
| HDPE | High Density Polyethylene | -40°C ~100°C |

Table 7 Cable Selection

| | | | | |
|--------------------|-----|------|-----|-----|
| Fill | PP | PP | FEP | PFA |
| Insulation | FEP | ETFE | FEP | PFA |
| Max Temperature °C | 150 | 150 | 200 | 260 |

| Conductor Size | Core Size / mm | | Maximum Resistance Value(Ω/km) |
|----------------|----------------|-------------------|--------------------------------|
| | Solid Core | 7-strand stranded | 20°C |
| 12AWG | 1/2.05 | 7/0.78 | 5.31 |
| 14AWG | 1/1.62 | 7/0.62 | 8.5 |
| 16AWG | 1/1.29 | 7/0.49 | 13.5 |
| 18AWG | 1/1.02 | 7/0.39 | 23 |
| 20AWG | 1/0.93 | 7/0.31 | 34.8 |
| 22AWG | 1/0.64 | 7/0.22 | 54.6 |

| Electrical Performance | |
|--------------------------------------|--------------------------------------------|
| Insulation Resistance | ≥ 3050 MΩ · km |
| Withstanding Voltage Insulation Test | DC voltage 3KV, no breakdown in 5 minutes. |

There are multiple configuration options for copper conductors.

- Size: 12, 14, 16, 18, 20, 22AWG, etc.
- Type: Solid Core or Stranded Conductor
- Material: bare copper, tin-plated, silver-plated, and other copper conductors.

Control Line Product Performance Data Sheet

| Material | Standard Out Diameter | Standard Wall Thickness | Unit Weight | Standard Inner Diameter | Cross-sectional Area | Minimum Yield Ytrength | Minimum Tensile Strength | Pipe load | | Minimum Test Pressure | Minimum Internal Yield Pressure | Minimum External Collapse Strength | Minimum Internal Burst Pressure |
|----------|-----------------------|-------------------------|-------------|-------------------------|----------------------|------------------------|--------------------------|--------------------|----------------------|-----------------------|---------------------------------|------------------------------------|---------------------------------|
| | | | | | | | | Minimum Yield load | Minimum Tensile Load | | | | |
| UNS | in | in | lbs/ft | in | sq.in | psi | psi | lbs | lbs | psig | psi | psig | psi |
| S31603 | 0.125 | 0.028 | 0.03 | 0.069 | 0.009 | 25000 | 70000 | 200 | 600 | 10700 | 11900 | 8100 | 28700 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.020 | 25000 | 70000 | 500 | 1400 | 5000 | 5600 | 4600 | 13100 |
| | 0.25 | 0.035 | 0.09 | 0.18 | 0.024 | 25000 | 70000 | 600 | 1700 | 6400 | 7100 | 5600 | 16700 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 25000 | 70000 | 800 | 2200 | 9300 | 10300 | 7300 | 24500 |
| | 0.25 | 0.065 | 0.14 | 0.12 | 0.038 | 25000 | 70000 | 900 | 2600 | 12600 | 14000 | 9000 | 34300 |
| | 0.375 | 0.035 | 0.13 | 0.305 | 0.037 | 25000 | 70000 | 900 | 2600 | 4100 | 4600 | 3900 | 10800 |
| | 0.375 | 0.049 | 0.18 | 0.277 | 0.050 | 25000 | 70000 | 1300 | 3500 | 5900 | 6600 | 5200 | 15500 |
| | 0.375 | 0.065 | 0.22 | 0.245 | 0.063 | 25000 | 70000 | 1600 | 4400 | 8100 | 9000 | 6600 | 21300 |
| | 0.375 | 0.083 | 0.27 | 0.209 | 0.076 | 25000 | 70000 | 1900 | 5300 | 10600 | 11800 | 8000 | 28200 |
| | 0.5 | 0.049 | 0.24 | 0.402 | 0.069 | 25000 | 70000 | 1700 | 4900 | 4400 | 4800 | 4100 | 11300 |
| | 0.5 | 0.065 | 0.31 | 0.37 | 0.089 | 25000 | 70000 | 2200 | 6200 | 5900 | 6600 | 5200 | 15400 |
| | 0.5 | 0.083 | 0.38 | 0.334 | 0.109 | 25000 | 70000 | 2700 | 7600 | 7700 | 8600 | 6400 | 20200 |
| | 0.625 | 0.049 | 0.31 | 0.527 | 0.089 | 25000 | 70000 | 2200 | 6200 | 3400 | 3800 | 3300 | 8900 |
| | 0.625 | 0.065 | 0.4 | 0.495 | 0.114 | 25000 | 70000 | 2900 | 8000 | 4600 | 5200 | 4300 | 12100 |
| 0.625 | 0.083 | 0.49 | 0.459 | 0.141 | 25000 | 70000 | 3500 | 9900 | 6000 | 6700 | 5300 | 15800 | |
| S31603 | 0.125 | 0.028 | 0.03 | 0.069 | 0.009 | 30000 | 70000 | 300 | 600 | 12900 | 14300 | 9700 | 28700 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.02 | 30000 | 70000 | 600 | 1400 | 6000 | 6700 | 5500 | 13100 |
| | 0.25 | 0.035 | 0.09 | 0.18 | 0.024 | 30000 | 77000 | 700 | 1700 | 7700 | 8500 | 6700 | 16700 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 30000 | 70000 | 900 | 2200 | 11100 | 12300 | 8800 | 24500 |
| | 0.25 | 0.065 | 0.14 | 0.12 | 0.038 | 30000 | 70000 | 1100 | 2600 | 15100 | 16800 | 10800 | 34300 |
| | 0.375 | 0.035 | 0.13 | 0.305 | 0.037 | 30000 | 70000 | 1100 | 2600 | 5000 | 5500 | 4700 | 10800 |
| | 0.375 | 0.049 | 0.18 | 0.277 | 0.050 | 30000 | 70000 | 1500 | 3500 | 7100 | 7900 | 6300 | 15500 |
| | 0.375 | 0.065 | 0.22 | 0.245 | 0.063 | 30000 | 70000 | 1900 | 4400 | 9700 | 10800 | 7900 | 21300 |
| | 0.375 | 0.083 | 0.27 | 0.209 | 0.076 | 30000 | 70000 | 2300 | 5300 | 12700 | 14100 | 9600 | 28200 |
| | 0.5 | 0.035 | 0.18 | 0.43 | 0.051 | 30000 | 70000 | 1500 | 3600 | 3700 | 4100 | 3600 | 7900 |
| | 0.5 | 0.049 | 0.24 | 0.402 | 0.069 | 30000 | 70000 | 2100 | 4900 | 5200 | 5800 | 4900 | 11300 |
| | 0.5 | 0.065 | 0.31 | 0.37 | 0.089 | 30000 | 70000 | 2700 | 6200 | 7100 | 7900 | 6200 | 15400 |
| | 0.5 | 0.083 | 0.38 | 0.334 | 0.109 | 30000 | 70000 | 3300 | 7600 | 9300 | 10300 | 7700 | 20200 |
| | 0.625 | 0.049 | 0.31 | 0.527 | 0.089 | 30000 | 70000 | 2700 | 6200 | 4100 | 4600 | 4000 | 8900 |
| 0.625 | 0.065 | 0.4 | 0.495 | 0.114 | 30000 | 70000 | 3400 | 8000 | 5600 | 6200 | 5100 | 12100 | |
| 0.625 | 0.083 | 0.49 | 0.459 | 0.141 | 30000 | 70000 | 4200 | 9900 | 7200 | 8000 | 6400 | 15800 | |
| S32205 | 0.125 | 0.028 | 0.03 | 0.069 | 0.009 | 70000 | 95000 | 600 | 800 | 18000 | 33300 | 22600 | 38900 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.020 | 70000 | 95000 | 1400 | 1900 | 14000 | 15500 | 12700 | 17800 |
| | 0.25 | 0.035 | 0.08 | 0.18 | 0.024 | 70000 | 95000 | 1700 | 2200 | 17800 | 19800 | 15500 | 22700 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 70000 | 95000 | 2200 | 2900 | 18000 | 28700 | 20400 | 33200 |
| | 0.25 | 0.065 | 0.13 | 0.12 | 0.038 | 70000 | 95000 | 2600 | 3600 | 18000 | 39200 | 25100 | 46500 |
| | 0.375 | 0.035 | 0.13 | 0.305 | 0.037 | 70000 | 95000 | 2600 | 3600 | 11500 | 12800 | 10800 | 14600 |
| | 0.375 | 0.049 | 0.17 | 0.277 | 0.050 | 70000 | 95000 | 3500 | 4800 | 16500 | 18400 | 14600 | 21000 |
| | 0.375 | 0.065 | 0.22 | 0.245 | 0.063 | 70000 | 95000 | 4400 | 6000 | 18000 | 25100 | 18500 | 28800 |
| | 0.375 | 0.083 | 0.26 | 0.209 | 0.076 | 70000 | 95000 | 5300 | 7200 | 18000 | 32800 | 22400 | 38300 |
| | 0.5 | 0.035 | 0.18 | 0.43 | 0.051 | 70000 | 95000 | 3600 | 4900 | 8500 | 9400 | 8300 | 10800 |
| | 0.5 | 0.049 | 0.24 | 0.402 | 0.069 | 70000 | 95000 | 4900 | 6600 | 12100 | 13500 | 11300 | 15400 |
| | 0.5 | 0.065 | 0.31 | 0.37 | 0.089 | 70000 | 95000 | 6200 | 8400 | 16500 | 18300 | 14500 | 20900 |
| | 0.5 | 0.083 | 0.37 | 0.334 | 0.109 | 70000 | 95000 | 7600 | 10300 | 18000 | 23900 | 17800 | 27500 |
| | 0.625 | 0.049 | 0.3 | 0.527 | 0.089 | 70000 | 95000 | 6200 | 8400 | 9600 | 10600 | 9200 | 12100 |
| 0.625 | 0.065 | 0.39 | 0.495 | 0.114 | 70000 | 95000 | 8000 | 10900 | 12900 | 14400 | 11900 | 16400 | |
| 0.625 | 0.083 | 0.48 | 0.459 | 0.141 | 70000 | 95000 | 9900 | 13400 | 16800 | 18700 | 14800 | 21400 | |

| Material | Standard Out Diameter | Standard Wall Thickness | Unit Weight | Standard Inner Diameter | Cross-sectional Area | Minimum Yield Ytrength | Minimum Tensile Strength | Pipe load | | Minimum Test Pressure | Minimum Internal Yield Pressure | Minimum External Collapse Strength | Minimum Internal Burst Pressure |
|----------|-----------------------|-------------------------|-------------|-------------------------|----------------------|------------------------|--------------------------|--------------------|----------------------|-----------------------|---------------------------------|------------------------------------|---------------------------------|
| | | | | | | | | Minimum Yield load | Minimum Tensile Load | | | | |
| UNS | in | in | lbs/ft | in | sq.in | psi | psi | lbs | lbs | psig | psi | psig | psi |
| S32205 | 0.125 | 0.028 | 0.03 | 0.069 | 0.009 | 80000 | 95000 | 700 | 800 | 18000 | 38000 | 25800 | 38900 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.020 | 80000 | 95000 | 1600 | 1900 | 16000 | 17800 | 14600 | 17800 |
| | 0.25 | 0.035 | 0.08 | 0.18 | 0.024 | 80000 | 95000 | 1900 | 2200 | 18000 | 22600 | 17700 | 22700 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 80000 | 95000 | 2500 | 2900 | 18000 | 32800 | 23300 | 33200 |
| | 0.25 | 0.065 | 0.13 | 0.12 | 0.038 | 80000 | 95000 | 3000 | 3600 | 18000 | 44800 | 28700 | 46500 |
| | 0.375 | 0.035 | 0.13 | 0.305 | 0.037 | 80000 | 95000 | 3000 | 3600 | 13100 | 14600 | 12400 | 14600 |
| | 0.375 | 0.049 | 0.17 | 0.277 | 0.050 | 80000 | 95000 | 4000 | 4800 | 18000 | 21000 | 16700 | 21000 |
| | 0.375 | 0.065 | 0.22 | 0.245 | 0.063 | 80000 | 95000 | 5100 | 6000 | 18000 | 28600 | 21100 | 28800 |
| | 0.375 | 0.083 | 0.26 | 0.209 | 0.076 | 80000 | 95000 | 6100 | 7200 | 18000 | 37500 | 25600 | 38300 |
| | 0.5 | 0.035 | 0.18 | 0.43 | 0.051 | 80000 | 95000 | 4100 | 4900 | 9700 | 10800 | 9500 | 10800 |
| | 0.5 | 0.049 | 0.24 | 0.402 | 0.069 | 80000 | 95000 | 5600 | 6600 | 13900 | 15400 | 12900 | 15400 |
| | 0.5 | 0.065 | 0.31 | 0.37 | 0.089 | 80000 | 95000 | 7100 | 8400 | 18000 | 20900 | 16600 | 20900 |
| | 0.5 | 0.083 | 0.37 | 0.334 | 0.109 | 80000 | 95000 | 8700 | 10300 | 18000 | 27300 | 20400 | 27500 |
| | 0.625 | 0.049 | 0.3 | 0.527 | 0.089 | 80000 | 95000 | 7100 | 8400 | 10900 | 12100 | 10500 | 12100 |
| 0.625 | 0.065 | 0.39 | 0.495 | 0.114 | 80000 | 95000 | 9100 | 10900 | 14800 | 16400 | 13600 | 16400 | |
| 0.625 | 0.083 | 0.48 | 0.459 | 0.141 | 80000 | 95000 | 11300 | 13400 | 18000 | 21400 | 16900 | 21400 | |
| S32750 | 0.125 | 0.028 | 0.03 | 0.069 | 0.009 | 79800 | 116000 | 700 | 1000 | 18000 | 37900 | 25700 | 47500 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.020 | 79800 | 116000 | 1600 | 2300 | 16000 | 17700 | 14500 | 21700 |
| | 0.25 | 0.035 | 0.09 | 0.18 | 0.024 | 79800 | 116000 | 1900 | 2700 | 18000 | 22600 | 17600 | 27700 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 79800 | 116000 | 2500 | 3600 | 18000 | 32700 | 23200 | 40600 |
| | 0.25 | 0.065 | 0.14 | 0.12 | 0.038 | 79800 | 116000 | 3000 | 4400 | 18000 | 44600 | 28700 | 56800 |
| | 0.375 | 0.035 | 0.14 | 0.305 | 0.037 | 79800 | 116000 | 3000 | 4300 | 13100 | 14600 | 12300 | 17800 |
| | 0.375 | 0.049 | 0.18 | 0.277 | 0.050 | 79800 | 116000 | 4000 | 5800 | 18000 | 20900 | 16600 | 25600 |
| | 0.375 | 0.065 | 0.23 | 0.245 | 0.063 | 79800 | 116000 | 5100 | 7300 | 18000 | 28600 | 21100 | 35200 |
| | 0.375 | 0.083 | 0.27 | 0.209 | 0.076 | 79800 | 116000 | 6100 | 8800 | 18000 | 37400 | 25500 | 46800 |
| | 0.5 | 0.049 | 0.25 | 0.402 | 0.069 | 79800 | 116000 | 5500 | 8100 | 13800 | 15300 | 12900 | 18800 |
| | 0.5 | 0.065 | 0.31 | 0.37 | 0.089 | 79800 | 116000 | 7100 | 10300 | 18000 | 20800 | 16500 | 25500 |
| | 0.5 | 0.083 | 0.38 | 0.334 | 0.109 | 79800 | 116000 | 8700 | 12600 | 18000 | 27200 | 20300 | 33500 |
| | 0.625 | 0.049 | 0.31 | 0.527 | 0.089 | 79800 | 116000 | 7100 | 10300 | 10900 | 12100 | 10500 | 14800 |
| | 0.625 | 0.065 | 0.4 | 0.495 | 0.114 | 79800 | 116000 | 9100 | 13300 | 14700 | 16400 | 13600 | 20000 |
| 0.625 | 0.083 | 0.5 | 0.459 | 0.141 | 79800 | 116000 | 11300 | 16400 | 18000 | 21300 | 16800 | 26100 | |
| N08825 | 0.125 | 0.028 | 0.04 | 0.069 | 0.009 | 35000 | 85000 | 300 | 700 | 15000 | 16700 | 11300 | 34800 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.020 | 35000 | 85000 | 700 | 1700 | 7000 | 7800 | 6400 | 15900 |
| | 0.25 | 0.035 | 0.09 | 0.18 | 0.024 | 35000 | 85000 | 800 | 2000 | 8900 | 9900 | 7800 | 20300 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 35000 | 85000 | 1100 | 2600 | 13000 | 14400 | 10200 | 29700 |
| | 0.25 | 0.065 | 0.14 | 0.12 | 0.038 | 35000 | 85000 | 1300 | 3200 | 17700 | 19600 | 12600 | 41700 |
| | 0.375 | 0.035 | 0.14 | 0.305 | 0.037 | 35000 | 85000 | 1300 | 3200 | 5800 | 6400 | 5400 | 13100 |
| | 0.375 | 0.049 | 0.18 | 0.277 | 0.050 | 35000 | 85000 | 1800 | 4300 | 8300 | 9200 | 7300 | 18800 |
| | 0.375 | 0.065 | 0.23 | 0.245 | 0.063 | 35000 | 85000 | 2200 | 5400 | 11300 | 12600 | 9300 | 25800 |
| | 0.375 | 0.083 | 0.27 | 0.209 | 0.076 | 35000 | 85000 | 2700 | 6500 | 14800 | 16400 | 11200 | 34300 |
| | 0.5 | 0.035 | 0.19 | 0.43 | 0.051 | 35000 | 85000 | 1800 | 4300 | 4300 | 4700 | 4200 | 9600 |
| | 0.5 | 0.049 | 0.25 | 0.402 | 0.069 | 35000 | 85000 | 2400 | 5900 | 6100 | 6800 | 5700 | 13800 |
| | 0.5 | 0.065 | 0.32 | 0.37 | 0.089 | 35000 | 85000 | 3100 | 7600 | 8300 | 9200 | 7300 | 18700 |
| | 0.5 | 0.083 | 0.39 | 0.334 | 0.109 | 35000 | 85000 | 3800 | 9200 | 10800 | 12000 | 8900 | 24600 |
| | 0.625 | 0.049 | 0.32 | 0.527 | 0.089 | 35000 | 85000 | 3100 | 7500 | 4800 | 5300 | 4600 | 10900 |
| 0.625 | 0.065 | 0.41 | 0.495 | 0.114 | 35000 | 85000 | 4000 | 9700 | 6500 | 7200 | 6000 | 14700 | |
| 0.625 | 0.083 | 0.5 | 0.459 | 0.141 | 35000 | 85000 | 4900 | 12000 | 8400 | 9400 | 7400 | 19100 | |

| Material | Standard Out Diameter | Standard Wall Thickness | Unit Weight | Standard Inner Diameter | Cross-sectional Area | Minimum Yield Ytrength | Minimum Tensile Strength | Pipe load | | Minimum Test Pressure | Minimum Internal Yield Pressure | Minimum External Collapse Strength | Minimum Internal Burst Pressure |
|----------|-----------------------|-------------------------|-------------|-------------------------|----------------------|------------------------|--------------------------|--------------------|----------------------|-----------------------|---------------------------------|------------------------------------|---------------------------------|
| | | | | | | | | Minimum Yield load | Minimum Tensile Load | | | | |
| UNS | in | in | lbs/ft | in | sq.in | psi | psi | lbs | lbs | psig | psi | psig | psi |
| N08825 | 0.125 | 0.028 | 0.04 | 0.069 | 0.009 | 65000 | 95000 | 600 | 800 | 18000 | 30900 | 21000 | 38900 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.020 | 65000 | 95000 | 1300 | 1900 | 13000 | 14400 | 11800 | 17800 |
| | 0.25 | 0.035 | 0.09 | 0.18 | 0.024 | 65000 | 95000 | 1500 | 2200 | 16600 | 18400 | 14400 | 22700 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 65000 | 95000 | 2000 | 2900 | 18000 | 26700 | 18900 | 33200 |
| | 0.25 | 0.065 | 0.14 | 0.12 | 0.038 | 65000 | 95000 | 2500 | 3600 | 18000 | 36400 | 23400 | 46500 |
| | 0.375 | 0.035 | 0.14 | 0.305 | 0.037 | 65000 | 95000 | 2400 | 3600 | 10700 | 11900 | 10100 | 14600 |
| | 0.375 | 0.049 | 0.18 | 0.277 | 0.050 | 65000 | 95000 | 3300 | 4800 | 15400 | 17100 | 13500 | 21000 |
| | 0.375 | 0.065 | 0.23 | 0.245 | 0.063 | 65000 | 95000 | 4100 | 6000 | 18000 | 23300 | 17200 | 28800 |
| | 0.375 | 0.083 | 0.27 | 0.209 | 0.076 | 65000 | 95000 | 4900 | 7200 | 18000 | 30500 | 20800 | 38300 |
| | 0.5 | 0.035 | 0.19 | 0.43 | 0.051 | 65000 | 95000 | 3300 | 4900 | 7900 | 8800 | 7700 | 10800 |
| | 0.5 | 0.049 | 0.25 | 0.402 | 0.069 | 65000 | 95000 | 4500 | 6600 | 11300 | 12500 | 10500 | 15400 |
| | 0.5 | 0.065 | 0.32 | 0.37 | 0.089 | 65000 | 95000 | 5800 | 8400 | 15300 | 17000 | 13500 | 20900 |
| | 0.5 | 0.083 | 0.39 | 0.334 | 0.109 | 65000 | 95000 | 7100 | 10300 | 18000 | 22200 | 16600 | 27500 |
| | 0.625 | 0.049 | 0.32 | 0.527 | 0.089 | 65000 | 95000 | 5800 | 8400 | 8900 | 9900 | 8600 | 12100 |
| | 0.625 | 0.065 | 0.41 | 0.495 | 0.114 | 65000 | 95000 | 7400 | 10900 | 12000 | 13300 | 11100 | 16400 |
| 0.625 | 0.083 | 0.5 | 0.459 | 0.141 | 65000 | 95000 | 9200 | 13400 | 15600 | 17400 | 13700 | 21400 | |
| N08825 | 0.125 | 0.028 | 0.03 | 0.069 | 0.009 | 90000 | 108000 | 800 | 900 | 18000 | 42800 | 29000 | 44200 |
| | 0.25 | 0.028 | 0.07 | 0.194 | 0.020 | 90000 | 108000 | 1800 | 2100 | 18000 | 20000 | 16400 | 20200 |
| | 0.25 | 0.035 | 0.09 | 0.18 | 0.024 | 90000 | 108000 | 2100 | 2600 | 18000 | 25500 | 19900 | 25800 |
| | 0.25 | 0.049 | 0.11 | 0.152 | 0.031 | 90000 | 108000 | 2800 | 3300 | 18000 | 36900 | 26200 | 37800 |
| | 0.25 | 0.065 | 0.14 | 0.12 | 0.038 | 90000 | 108000 | 3400 | 4100 | 18000 | 50300 | 32300 | 52900 |
| | 0.375 | 0.035 | 0.14 | 0.305 | 0.037 | 90000 | 108000 | 3400 | 4000 | 14800 | 16400 | 13900 | 16600 |
| | 0.375 | 0.049 | 0.18 | 0.277 | 0.050 | 90000 | 108000 | 4500 | 5400 | 18000 | 23600 | 18700 | 23900 |
| | 0.375 | 0.065 | 0.23 | 0.245 | 0.063 | 90000 | 108000 | 5700 | 6800 | 18000 | 32200 | 23700 | 32800 |
| | 0.375 | 0.083 | 0.27 | 0.209 | 0.076 | 90000 | 108000 | 6900 | 8200 | 18000 | 42200 | 28800 | 43600 |
| | 0.5 | 0.049 | 0.25 | 0.402 | 0.069 | 90000 | 108000 | 6200 | 7500 | 15600 | 17300 | 14500 | 17500 |
| | 0.5 | 0.065 | 0.31 | 0.37 | 0.089 | 90000 | 108000 | 8000 | 9600 | 18000 | 23500 | 18600 | 23700 |
| | 0.5 | 0.083 | 0.38 | 0.334 | 0.109 | 90000 | 108000 | 9800 | 11700 | 18000 | 30700 | 22900 | 31200 |
| | 0.625 | 0.049 | 0.31 | 0.527 | 0.089 | 90000 | 108000 | 8000 | 9600 | 12300 | 13600 | 11900 | 13800 |
| | 0.625 | 0.065 | 0.4 | 0.495 | 0.114 | 90000 | 108000 | 10300 | 12400 | 16600 | 18400 | 15300 | 18600 |
| | 0.625 | 0.083 | 0.5 | 0.459 | 0.141 | 90000 | 108000 | 12700 | 15300 | 18000 | 24000 | 19000 | 24300 |
| N06625 | 0.125 | 0.028 | 0.04 | 0.069 | 0.009 | 60000 | 120000 | 500 | 1000 | 18000 | 28500 | 19400 | 49100 |
| | 0.25 | 0.028 | 0.08 | 0.194 | 0.020 | 60000 | 120000 | 1200 | 2300 | 12000 | 13300 | 10900 | 22400 |
| | 0.25 | 0.035 | 0.09 | 0.18 | 0.024 | 60000 | 120000 | 1400 | 2800 | 15300 | 17000 | 13300 | 28600 |
| | 0.25 | 0.049 | 0.12 | 0.152 | 0.031 | 60000 | 120000 | 1900 | 3700 | 18000 | 24600 | 17500 | 41900 |
| | 0.25 | 0.065 | 0.14 | 0.12 | 0.038 | 60000 | 120000 | 2300 | 4500 | 18000 | 33600 | 21600 | 58800 |
| | 0.375 | 0.035 | 0.14 | 0.305 | 0.037 | 60000 | 120000 | 2200 | 4500 | 9900 | 11000 | 9300 | 18400 |
| | 0.375 | 0.049 | 0.19 | 0.277 | 0.050 | 60000 | 120000 | 3000 | 6000 | 14200 | 15800 | 12500 | 26500 |
| | 0.375 | 0.065 | 0.24 | 0.245 | 0.063 | 60000 | 120000 | 3800 | 7600 | 18000 | 21500 | 15800 | 36400 |
| | 0.375 | 0.083 | 0.28 | 0.209 | 0.076 | 60000 | 120000 | 4600 | 9100 | 18000 | 28200 | 19200 | 48400 |
| | 0.5 | 0.049 | 0.26 | 0.402 | 0.069 | 60000 | 120000 | 4200 | 8300 | 10400 | 11600 | 9700 | 19400 |
| | 0.5 | 0.065 | 0.33 | 0.37 | 0.089 | 60000 | 120000 | 5300 | 10700 | 14100 | 15700 | 12400 | 26400 |
| | 0.5 | 0.083 | 0.4 | 0.334 | 0.109 | 60000 | 120000 | 6500 | 13000 | 18000 | 20500 | 15300 | 34700 |
| | 0.625 | 0.049 | 0.33 | 0.527 | 0.089 | 60000 | 120000 | 5300 | 10600 | 8200 | 9100 | 7900 | 15300 |
| | 0.625 | 0.065 | 0.42 | 0.495 | 0.114 | 60000 | 120000 | 6900 | 13700 | 11100 | 12300 | 10200 | 20700 |
| | 0.625 | 0.083 | 0.52 | 0.459 | 0.141 | 60000 | 120000 | 8500 | 17000 | 14400 | 16000 | 12700 | 27000 |



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