

## Coiled Control Line 2205 UNS S32205

| Designation |       | Wall Thickness |       | Mass per Unit Length | Calculated Inside Diameter | Tubing Area (Sq.in) |               | Tube Load Body    |                   | Internal Pressure (psi) |                     | Collapse Strength | Internal Capacity per 1000ft |       | Torsional Yield |     |
|-------------|-------|----------------|-------|----------------------|----------------------------|---------------------|---------------|-------------------|-------------------|-------------------------|---------------------|-------------------|------------------------------|-------|-----------------|-----|
|             |       | Specified      | Min   |                      |                            | W/min.              | Internal min. | Yield min         | Tensile min       | Hydro Test 90%          | Internal Yield min. |                   |                              |       |                 |     |
|             |       | OD             | WT    | inch                 | inch                       | lb/ft               | inch          | inch <sup>2</sup> | inch <sup>2</sup> | lb                      | lb                  | psig              | psig                         | psig  | gal             | bar |
| 1/4         | 0.250 | 0.035          | 0.035 | 0.032                | 0.08                       | 0.180               | 0.022         | 0.027             | 1,900             | 2,200                   | 17,500              | 19,400            | 17,600                       | 1.32  | 0.031           | 8   |
|             | 0.250 | 0.049          | 0.049 | 0.044                | 0.11                       | 0.152               | 0.029         | 0.021             | 2,500             | 2,900                   | 23,600              | 26,200            | 23,300                       | 0.94  | 0.022           | 10  |
|             | 0.250 | 0.065          | 0.065 | 0.059                | 0.13                       | 0.120               | 0.035         | 0.014             | 3,000             | 3,600                   | 29,400              | 32,700            | 28,700                       | 0.59  | 0.014           | 11  |
| 3/8         | 0.375 | 0.035          | 0.035 | 0.032                | 0.13                       | 0.305               | 0.034         | 0.076             | 3,000             | 3,600                   | 11,900              | 13,200            | 12,300                       | 3.79  | 0.090           | 21  |
|             | 0.375 | 0.049          | 0.049 | 0.044                | 0.17                       | 0.277               | 0.046         | 0.065             | 4,000             | 4,800                   | 16,500              | 18,300            | 16,700                       | 3.13  | 0.075           | 26  |
|             | 0.375 | 0.065          | 0.065 | 0.059                | 0.22                       | 0.245               | 0.058         | 0.052             | 5,100             | 6,000                   | 21,200              | 23,500            | 21,100                       | 2.45  | 0.058           | 31  |
|             | 0.375 | 0.080          | 0.080 | 0.072                | 0.26                       | 0.215               | 0.069         | 0.042             | 5,900             | 7,000                   | 25,200              | 28,000            | 24,800                       | 1.88  | 0.045           | 34  |
| 1/2         | 0.500 | 0.049          | 0.049 | 0.044                | 0.24                       | 0.402               | 0.063         | 0.133             | 5,600             | 6,600                   | 12,500              | 13,900            | 12,900                       | 6.59  | 0.157           | 51  |
|             | 0.500 | 0.065          | 0.065 | 0.059                | 0.31                       | 0.370               | 0.081         | 0.115             | 7,100             | 8,400                   | 16,300              | 18,100            | 16,500                       | 5.58  | 0.133           | 62  |
|             | 0.500 | 0.080          | 0.080 | 0.072                | 0.36                       | 0.340               | 0.097         | 0.100             | 8,400             | 10,000                  | 19,700              | 21,900            | 19,700                       | 4.71  | 0.112           | 70  |
| 5/8         | 0.625 | 0.049          | 0.049 | 0.044                | 0.30                       | 0.527               | 0.080         | 0.226             | 7,100             | 8,400                   | 10,100              | 11,200            | 10,100                       | 11.32 | 0.270           | 84  |
|             | 0.625 | 0.065          | 0.065 | 0.059                | 0.39                       | 0.495               | 0.104         | 0.203             | 9,100             | 10,900                  | 13,100              | 14,600            | 13,600                       | 9.99  | 0.238           | 104 |

### Chemistry Composition

C,% 0.03 max Mn,% 2.00 max P,% 0.030 max S,% 0.020 max Si,% 1.00 max  
Cr,% 22.0-23.0 Ni,% 4.50-6.50 Mo,% 3.00-3.50 N,% 0.14-0.20

### Mechanical Properties

Tensile Strength: 95,000psi (655MPa) min  
Yield Strength: 80,000psi (552MPa) min  
Hardness: 290HBW or 30HRC max

Tensile strength & yield strength minimum are calculated on specified wall.  
Other dimensions are available on request.