

STEEL PIPES FOR ORDINARY PURPOSES AND PIPING SYSTEM

Chemical Composition

| | Max |
|------------|-------|
| Carbon | 0.4 |
| Manganese | - |
| Phosphorus | 0.045 |
| Sulphur | 0.045 |

Mechanical Properties

| | Min |
|------------|---------------|
| Tensile | 320 - 460 MPa |
| Yield | 195 MPa |
| Elongation | 20% |



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AS 1074: STEEL TUBES AND TUBULARS FOR ORDINARY SERVICE

| Nominal Size | | | Outside Diameter (mm) | | | Thickness | Mass per Unit Length | | Hydro Test Pressure |
|---------------------|--------|--------|-----------------------|--------|--------|-----------|----------------------|-------|---------------------|
| DN | inch | mm | std | min | max | | kg/m | kg/m | psi |
| LIGHT CLASS | | | | | | | | | |
| 15 | 1/2" | 21.40 | 21.40 | 21.00 | 21.40 | 2.0 | 0.947 | 0.956 | 700 |
| 20 | 3/4" | 26.90 | 26.90 | 26.40 | 26.90 | 2.3 | 1.38 | 1.39 | 700 |
| 25 | 1" | 33.80 | 33.80 | 33.20 | 33.80 | 2.6 | 1.98 | 2.00 | 700 |
| 32 | 1 1/4" | 42.50 | 42.50 | 41.90 | 42.50 | 2.6 | 2.54 | 2.57 | 700 |
| 40 | 1 1/2" | 48.40 | 48.40 | 47.80 | 48.40 | 2.9 | 3.23 | 3.27 | 700 |
| 50 | 2" | 60.20 | 60.20 | 59.60 | 60.20 | 2.9 | 4.08 | 4.15 | 700 |
| 65 | 2 1/2" | 76.00 | 76.00 | 75.20 | 76.00 | 3.2 | 5.71 | 5.83 | 700 |
| 80 | 3" | 88.70 | 88.70 | 87.90 | 88.70 | 3.2 | 6.72 | 6.89 | 700 |
| 100 | 4" | 113.9 | 113.9 | 113 | 113.9 | 3.6 | 9.75 | 10.0 | 700 |
| MEDIUM CLASS | | | | | | | | | |
| 15 | 1/2" | 21.70 | 21.70 | 21.10 | 21.70 | 2.6 | 1.210 | 1.220 | 700 |
| 20 | 3/4" | 27.20 | 27.20 | 26.60 | 27.20 | 2.6 | 1.56 | 1.57 | 700 |
| 25 | 1" | 34.20 | 34.20 | 33.40 | 34.20 | 3.2 | 2.41 | 2.43 | 700 |
| 32 | 1 1/4" | 42.90 | 42.90 | 42.10 | 42.90 | 3.2 | 3.10 | 3.13 | 700 |
| 40 | 1 1/2" | 48.80 | 48.80 | 48.00 | 48.80 | 3.2 | 3.57 | 3.61 | 700 |
| 50 | 2" | 60.80 | 60.80 | 59.80 | 60.80 | 3.6 | 5.03 | 5.10 | 700 |
| 65 | 2-1/2" | 76.60 | 76.60 | 75.40 | 76.60 | 3.6 | 6.43 | 6.55 | 700 |
| 80 | 3" | 89.50 | 89.50 | 88.10 | 89.50 | 4.0 | 8.37 | 8.54 | 700 |
| 100 | 4" | 114.90 | 114.90 | 113.30 | 114.90 | 4.5 | 12.2 | 12.50 | 700 |
| 125 | 5" | 140.60 | 140.60 | 138.70 | 140.60 | 5.0 | 16.60 | 17.10 | 700 |
| 150 | 6" | 166.10 | 166.10 | 164.10 | 166.10 | 5.0 | 19.70 | 20.30 | 700 |
| HEAVY CLASS | | | | | | | | | |
| 15 | 1/2" | 21.70 | 21.70 | 21.10 | 21.70 | 3.2 | 1.440 | 1.450 | 700 |
| 20 | 3/4" | 27.20 | 27.20 | 26.60 | 27.20 | 3.2 | 1.87 | 1.88 | 700 |
| 25 | 1" | 34.20 | 34.20 | 33.40 | 34.20 | 4.0 | 2.94 | 2.96 | 700 |
| 32 | 1 1/4" | 42.90 | 42.90 | 42.10 | 42.90 | 4.0 | 3.80 | 3.83 | 700 |
| 40 | 1 1/2" | 48.80 | 48.80 | 48.00 | 48.80 | 4.0 | 4.38 | 4.42 | 700 |
| 50 | 2" | 60.80 | 60.80 | 59.80 | 60.80 | 4.5 | 6.19 | 6.26 | 700 |
| 65 | 2-1/2" | 76.60 | 76.60 | 75.40 | 76.60 | 4.5 | 7.93 | 8.05 | 700 |
| 80 | 3" | 89.50 | 89.50 | 88.10 | 89.50 | 5.0 | 10.30 | 10.50 | 700 |
| 100 | 4" | 114.90 | 114.90 | 113.30 | 114.90 | 5.4 | 14.50 | 14.80 | 700 |
| 125 | 5" | 140.60 | 140.60 | 138.70 | 140.60 | 5.4 | 17.90 | 18.40 | 700 |
| 150 | 6" | 166.10 | 166.10 | 164.10 | 166.10 | 5.4 | 21.30 | 21.90 | 700 |

TOLERANCE

| | |
|--------|--|
| WT | Light class: - 8%, + unlimited |
| Weight | Medium and heavy class : - 10%, + unlimited -8%, +10% |