

### Carbon Pipe – Weight per foot Calculation

$$Wt/ft = (\text{Outside Diameter} - \text{Wall Thickness}) \times \text{Wall Thickness} \times 10.69$$

Example: 6" Std (.280 wall) Pipe

$$(6.625 - .280) \times .280 \times 10.69 = 18.99 \text{ lb/ft}$$

### Conversion of Foreign MTRS

Some foreign MTRS show mechanical tests (Yield & Tensile) in PSI (pounds per square inch) and others in Metric units such as Kgf/mm<sup>2</sup>, N/mm<sup>2</sup>, Mpa.

Kgf/mm<sup>2</sup> = Kilograms force per square millimeter.

To convert Kgf/mm<sup>2</sup> to PSI multiply by **1422.3** and round off to previous 100.

Example:     Yield = 36 Kgf/mm<sup>2</sup>  
                  1422.3 x 36 = 51,202.3 = 51,200 PSI  
                  Tensile = 62 Kgf/mm<sup>2</sup>  
                  1422.3 x 62 = 88,182.6 = 88,100 PSI

N/mm<sup>2</sup> = Newtons per square millimeter.

To convert N/mm<sup>2</sup> to PSI, multiply by **145** and round off to previous 100.

Example:     Yield = 294 N/mm<sup>2</sup>  
                  145 x 294 = 42,630 = 42,600 PSI  
                  Tensile = 542 N/mm<sup>2</sup>  
                  145 x 542 = 78,590 = 78500 PSI

Mpa – Megapascal = N/mm<sup>2</sup>

To convert Mpa to PSI multiply by **145**.

Example:     Same as N/mm<sup>2</sup> above.