

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/mm², N/mm², Mpa.

Kgf/mm² = Kilograms force per square millimeter.

To convert Kgf/mm² to PSI multiply by **1422.3** and round off to previous 100.

Example: Yield = 36 Kgf/mm²
 1422.3 x 36 = 51,202.3 = 51,200 PSI
 Tensile = 62 Kgf/mm²
 1422.3 x 62 = 88,182.6 = 88,100 PSI

N/mm² = Newtons per square millimeter.

To convert N/mm² to PSI, multiply by **145** and round off to previous 100.

Example: Yield = 294 N/mm²
 145 x 294 = 42,630 = 42,600 PSI
 Tensile = 542 N/mm²
 145 x 542 = 78,590 = 78,500 PSI

Mpa – Megapascal = N/mm²

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

Example: Same as N/mm² above.