

USEFUL CONVERSIONS AND EQUIVALENTS

$$1 \text{ N/m}^2 \text{ (Pascal or Pa)} = 10 \text{ dynes/cm}^2 = 1 \times 10^{-5} \text{ bar} = 1.45 \times 10^{-4} \text{ lb/in}^2 = 0.021 \text{ lb/ft}^2$$

$$1 \text{ bar} = 1 \times 10^6 \text{ dynes/cm}^2 = 1 \times 10^5 \text{ N/m}^2 = 14.5 \text{ lb/in}^2 = 2088.5 \text{ lb/ft}^2 = 0.9869 \text{ atm.}$$

$$1 \text{ atm.} = 1.013 \text{ bars} = 1013 \text{ mb} = 760 \text{ mm of Hg} = 14.696 \text{ lb/in}^2 = 2116 \text{ lb/ft}^2$$

$$T \text{ (}^\circ\text{C)} = \frac{5}{9} (T \text{ }^\circ\text{F} - 32)$$

$$T \text{ (}^\circ\text{F)} = \frac{9}{5} T \text{ }^\circ\text{C} + 32$$

$$T \text{ (}^\circ\text{K)} = T \text{ }^\circ\text{C} + 273$$

$$1 \text{ g/cm}^3 = 1000 \text{ kg/m}^3 = 62.43 \text{ lb/ft}^3$$

$$1 \text{ m}^3 = 35.31 \text{ ft}^3 = 264.2 \text{ gal}$$

$$1 \text{ ft}^3 = 0.0283 \text{ m}^3 = 7.48 \text{ gal}$$

$$1 \text{ m}^2 = 10\,000 \text{ cm}^2 = 1 \times 10^{-6} \text{ km}^2 = 10.76 \text{ ft}^2 = 1550 \text{ in}^2$$

$$1 \text{ ft}^2 = 144 \text{ in}^2 = 0.0929 \text{ m}^2$$

$$1 \text{ km}^2 = 1 \times 10^6 \text{ m}^2 = 0.386 \text{ mi}^2 = 1.076 \times 10^7 \text{ ft}^2$$

$$1 \text{ mi}^2 = 2.59 \text{ km}^2 = 2.78784 \times 10^7 \text{ ft}^2$$

$$1 \text{ m} = 100 \text{ cm} = 0.001 \text{ km} = 3.28 \text{ ft} = 39.37 \text{ in}$$

$$1 \text{ ft} = 12 \text{ in} = 30.48 \text{ cm} = 0.3048 \text{ m}$$

$$1 \text{ km} = 1000 \text{ m} = 3280.8 \text{ ft} = 0.621 \text{ mile}$$

$$1 \text{ mile} = 5280 \text{ ft} = 63360 \text{ in} = 1.609 \text{ km}$$

$$1 \text{ day} = 24 \text{ hr} = 1440 \text{ min} = 86400 \text{ sec}$$

$$1 \text{ year} = 365.25 \text{ days (avg)} = 8766 \text{ hr} = 525960 \text{ min} = 31\,557\,600 \text{ sec}$$

$$1 \text{ ft}^3/\text{sec} = 0.0283 \text{ m}^3/\text{sec} = 86400 \text{ ft}^3/\text{day} = 2445 \text{ m}^3/\text{day} = 1.98 \text{ Acre-ft (AF)} = 646317 \text{ gal/day}$$

$$1 \text{ m}^3/\text{sec} = 35.31 \text{ ft}^3/\text{sec} = 86400 \text{ m}^3/\text{day} = 3\,051\,187 \text{ ft}^3/\text{day}$$