

METRIC PRACTICE GUIDE FOR CONCRETE AND CONCRETE AGGREGATES

Inch-Pound Units	Factor	SI Units
inch	× 25.4 (exact)	= millimetre (mm)
square inch	× 6.452	= square centimetre (cm ²)
cubic foot	× 0.02832	= cubic metre (m ³)
pound per cubic foot	× 16.02	= kilogram per cubic metre (kg/m ³)
pound per cubic yard	× 0.5933	= kilogram per cubic metre (kg/m ³)
ounce (U.S. fluid)	× 29.57	= cubic centimetre (cm ³) (millilitre)
quart (U.S. fluid)	× 0.9464	= cubic decimetre (dm ³) (litre)
pound (avoirdupois)	× 0.4536	= kilogram (kg)
ton	× 0.9072	= megagram (Mg) (metric ton)
psi	× 6.895	= kilopascal (kPa)
psi	× 0.006895	= megapascal (MPa)
grain	× 0.06480	= gram (g)
horsepower	× 745.7	= watt (W)
square centimetre per gram (cm ² /g)	× 0.1 (exact)	= square metre per kilogram (m ² /kg)
calorie per gram	× 4.184 (exact)	= kilojoule per kilogram (kJ/kg)
pound-force (lbf)	× 4.448	= newton (N)
pound-force (lbf)	× 0.004448	= kilonewton (kN)
temperature, degree Fahrenheit (°F)	(°F – 32)/1.8	= temperature, degree Celsius (°C)
temperature interval, degree Fahrenheit (°F)	°F/1.8	= temperature interval, degree Celsius (°C)

Note—When converting from alternative designation of sieves in inch-pound units, the proper quantity in SI units is that given in Table 1 of Specification E 11 for Wire-Cloth Sieves for Testing Purposes, and not the quantity calculated from the alternative designation. (For example, the "1-in." sieve is the 25.0-mm sieve, not the 25.4-mm sieve).