

PRESSURE CONVERSION TABLE

MPa	KPa	Pa	At	Bar	kg/sq.cm	mWh	lbi/in ²	ftWh
1	10 ³	10 ⁰	10.197	10	10.197	101.97	145	334.6
10 ³	1	10 ⁰	10.2 x 10 ³	0.01	10.2 x 10 ³	0.102	0.145	0.3346
10 ⁶	10 ⁶	1	10.2 x 10 ³	10	10.2 x 10 ⁶	10.2 x 10 ³	14.5 x 10 ³	33.46 x 10 ³
0.098	98.066	98.066 x 10 ³	1	0.981	1	10	14.22	32.81
0.1	100	10 ³	1.020	1	1.020	10.197	14.5	33.46
0.098	98.066	98.066 x 10 ³	1	0.981	1	10	14.22	32.81
9.807 x 10 ³	9.807	9.807 x 10 ³	0.1	0.098	0.1	1	1.422	3.281
6.895 x 10 ³	6.895	6.895 x 10 ³	0.070	0.069	0.070	0.703	1	2.307
2.988 x 10 ³	2.988	2.988 x 10 ³	0.030	0.030	0.030	0.305	0.434	1

SI UNITS AND CONVERSION FACTORS

Thermodynamics

Absolute temperature Kelvin (K)				K			Multiples & submultiples not used
Celsius temperature				°C			0°C = 1273, 15K Temperature interval 1°C = 1K
Quantity of heat, joule (J)			kJ	J	mJ		
Heat flow rate, watt (W)			kW	W			
Thermal radiation density, heat flow density (W m ⁻²)		MW m ⁻²	KW m ⁻²	W m ⁻²			
Specific heat (J (kg K) ⁻¹)			$\frac{kJ}{kgK}$	$\frac{kJ}{kgK}$			J (kg °C) ⁻¹
Latent heat (J (kg) ⁻¹)		MJ kg ⁻¹	J kg ⁻¹				
Coefficient of expansion (1 K ⁻¹)				1 K ⁻¹			Generally used with power - of - ten multiplier 1/°C = 1K ⁻¹
Thermal conductivity W (m IQ ⁻¹)			kWmK ⁻¹	WmK ⁻¹			W (m°C) ⁻¹
Heat transfer coefficient ((W m ³ K) ⁻¹)			$\frac{kW}{m^2K}$	$\frac{W}{m^2K}$			W (m°C) ⁻¹
Gas constant (J (kg K) ⁻¹)				$\frac{J}{KgK}$			J (kg°C) ⁻¹
Calorimetric value (J kg ⁻¹)		$\frac{Mj}{kg}$	$\frac{kj}{kg}$				
Specific Impulse (Ns kg ⁻¹)				$\frac{Ns}{kg}$			1 Ns kg ⁻¹ = 1 m s ⁻¹