

Density conversion chart

kg/m³, g/cm³, lb/ft³, lb/gal. Factors are given to 7 significant figures; open the converter for full precision and the worked solution.

Conversion factors to kilograms per cubic metre (kg/m³)		
UNIT	IN KG/M³	1 KG/M³ IN UNIT
kilogram per cubic metre (kg/m³)	1 kg/m³	1 kg/m³
gram per cubic centimetre (g/cm³)	1,000 kg/m³	0.001 g/cm³
gram per millilitre (g/mL)	1,000 kg/m³	0.001 g/mL
kilogram per litre (kg/L)	1,000 kg/m³	0.001 kg/L
gram per litre (g/L)	1 kg/m³	1 g/L
pound per cubic foot (lb/ft³)	16.01846 kg/m³	0.06242796 lb/ft³
pound per cubic inch (lb/in³)	27,679.9 kg/m³	0.00003612729 lb/in³
pound per US gallon (lb/gal (US))	119.8264 kg/m³	0.008345404 lb/gal (US)
pound per imperial gallon (lb/gal (UK))	99.77637 kg/m³	0.01002241 lb/gal (UK)
slug per cubic foot (slug/ft³)	515.3788 kg/m³	0.00194032 slug/ft³

kg/m³ → lb/ft³	
KG/M³	LB/FT³
0.1 kg/m³	0.006242796 lb/ft³
0.5 kg/m³	0.03121398 lb/ft³
1 kg/m³	0.06242796 lb/ft³
2 kg/m³	0.1248559 lb/ft³
5 kg/m³	0.3121398 lb/ft³
10 kg/m³	0.6242796 lb/ft³
20 kg/m³	1.248559 lb/ft³
25 kg/m³	1.560699 lb/ft³
50 kg/m³	3.121398 lb/ft³
100 kg/m³	6.242796 lb/ft³
250 kg/m³	15.60699 lb/ft³
500 kg/m³	31.21398 lb/ft³
1,000 kg/m³	62.42796 lb/ft³

lb/ft³ → kg/m³	
LB/FT³	KG/M³
0.1 lb/ft³	1.601846 kg/m³
0.5 lb/ft³	8.009232 kg/m³
1 lb/ft³	16.01846 kg/m³
2 lb/ft³	32.03693 kg/m³
5 lb/ft³	80.09232 kg/m³
10 lb/ft³	160.1846 kg/m³
20 lb/ft³	320.3693 kg/m³
25 lb/ft³	400.4616 kg/m³
50 lb/ft³	800.9232 kg/m³
100 lb/ft³	1,601.846 kg/m³
250 lb/ft³	4,004.616 kg/m³
500 lb/ft³	8,009.232 kg/m³
1,000 lb/ft³	16,018.46 kg/m³

Formula: $\text{lb/ft}^3 = \text{kg/m}^3 \times 0.06242796058$

