

Tables of Conversion

UNITS OF VOLUME

	Ft ³	Gal (U.S.)	Gal. (Imp.)	Liter	M ³
Ft ³	1	7.48	6.23	28.3	0.0283
Gal (U.S.)	0.134	1	0.833	3.785	0.003785
Gal. (Imp.)	0.160	1.2	1	4.53	0.00453
Liter	0.353	0.264	0.220	1	0.001
M ³	35.3	264	220	1000	1

UNITS OF MASS

	Pounds	Grams	Kilograms	Grains	Kilograins
1 Pound	1	453.6	0.4536	7000	7
1 Gram	0.0022	1	0.001	15.43	0.01543
1 Kilogram	2.2	1000	1	15430	15.43
1 Grain	0.000143	0.065	0.000065	1	0.001
1 Kilograins	0.143	65	0.065	1000	1

UNITS OF DENSITY

	Pounds/ft ³	Grams/liter	Pounds/Gal. (U.S.)	Pounds/Gal. (Imp)
1 pound/ ft ³	1	16	0.134	0.160
1 Gram/liter	0.0624	1	0.00834	0.010
1 Pound/Gal (U.S.)	7.48	120	1	1.2
1 Pound/Gal. (Imp.)	6.24	100	0.834	1

FLOWRATE*

	Bed volume ⁺ /h	Gal.US./ft ³ /h	Gal. Imp./ft ³ /h
1Bed volume ⁺ /hr	1	7.48	6.24
1 Gal.(U.S.)/ft ³ /hr	0.134	1	0.833
1Gal. (Imp.)/ft ³ /hr	0.161	1.20	1

* To convert flow rate per volume to flow rate per unit area, multiply flow rate per unit volume by resin volume and divide by cross sectional area of resin bed. ⁺Bed volume= m³of liquid flow/m³of resin volume

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RESIN CAPACITY

	Meq/ml.	Kilograins (as CaCO ₃)/ ft ³	Gram(as CaCO ₃) / lit
1 Meq/ml.	1	21.8	50
1 Kilograins(as CaCO ₃)/ft ³	0.0459	1	2.29
1 Gram (as CaCO ₃)/lit	0.0200	0.436	1

SCREEN EQUIVALENTS

U.S. Standard			Tyler Standard			British Standard		
Sieve No	Opening		Sieve No	Opening		Sieve No	Opening	
	mm	Inches		mm	Inches		mm	Inches
12	1.68	0.0661	10	1.65	0.065	10	1.68	0.0660
14	1.41	0.0555	12	1.40	0.055	12	1.40	0.0553
16	1.19	0.0469	14	1.17	0.046	14	1.20	0.0474
18	1.00	0.0394	16	0.991	0.039	16	1.00	0.0395
20	0.84	0.0331	20	0.833	0.0328	18	0.853	0.0336
25	0.71	0.0280	24	0.701	0.0276	22	0.699	0.0275
30	0.59	0.0232	28	0.589	0.0232	25	0.599	0.0236
35	0.50	0.0197	32	0.495	0.0195	30	0.500	0.0197
40	0.42	0.0165	35	0.417	0.0164	36	0.422	0.0166
45	0.35	0.0138	42	0.351	0.0138	44	0.353	0.0139
50	0.297	0.0117	48	0.295	0.0116	52	0.295	0.0116
60	0.250	0.0098	60	0.246	0.0097	60	0.251	0.0099
70	0.210	0.0083	65	0.208	0.0082	72	0.211	0.0083
80	0.177	0.0070	80	0.175	0.0069	85	0.178	0.007
100	0.149	0.0059	100	0.147	0.0058	100	0.152	0.006
200	0.074	0.0029	200	0.074	0.0029	200	0.076	0.003
325	0.044	0.0017	325	0.043	0.0017	240	0.066	0.0026