



**TEMPERATURE-VOLUME CORRECTIONS FOR ASPHALTIC MATERIALS (METRIC UNITS)**

**GROUP 1 – DENSITY AT 15°C BETWEEN 0.8495 – 0.965**

**LEGEND: t = Observed Temperature in Degrees Celsius  
M = Multiplier for Reducing Volume to 15°C**

<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>
-25.0	1.0290	0.0	1.0108	25.0	0.9929	50.0	0.9752	75.0	0.9578
-24.5	1.0286	0.5	1.0104	25.5	0.9925	50.5	0.9749	75.5	0.9575
-24.0	1.0283	1.0	1.0101	26.0	0.9922	51.0	0.9745	76.0	0.9571
-23.5	1.0279	1.5	1.0097	26.5	0.9918	51.5	0.9742	76.5	0.9568
-23.0	1.0276	2.0	1.0094	27.0	0.9915	52.0	0.9738	77.0	0.9564
-22.5	1.0272	2.5	1.0090	27.5	0.9911	52.5	0.9735	77.5	0.9561
-22.0	1.0268	3.0	1.0086	28.0	0.9907	53.0	0.9731	78.0	0.9557
-21.5	1.0265	3.5	1.0083	28.5	0.9904	53.5	0.9728	78.5	0.9554
-21.0	1.0261	4.0	1.0079	29.0	0.9900	54.0	0.9724	79.0	0.9550
-20.5	1.0258	4.5	1.0076	29.5	0.9897	54.5	0.9721	79.5	0.9547
-20.0	1.0254	5.0	1.0072	30.0	0.9893	55.0	0.9717	80.0	0.9543
-19.5	1.0250	5.5	1.0068	30.5	0.9889	55.5	0.9714	80.5	0.9540
-19.0	1.0247	6.0	1.0065	31.0	0.9886	56.0	0.9710	81.0	0.9536
-18.5	1.0243	6.5	1.0061	31.5	0.9882	56.5	0.9707	81.5	0.9533
-18.0	1.0239	7.0	1.0058	32.0	0.9879	57.0	0.9703	82.0	0.9529
-17.5	1.0236	7.5	1.0054	32.5	0.9875	57.5	0.9700	82.5	0.9526
-17.0	1.0232	8.0	1.0050	33.0	0.9871	58.0	0.9696	83.0	0.9523
-16.5	1.0228	8.5	1.0047	33.5	0.9868	58.5	0.9693	83.5	0.9519
-16.0	1.0224	9.0	1.0043	34.0	0.9864	59.0	0.9689	84.0	0.9516
-15.5	1.0221	9.5	1.0040	34.5	0.9861	59.5	0.9686	84.5	0.9512
-15.0	1.0217	10.0	1.0036	35.0	0.9857	60.0	0.9682	85.0	0.9509
-14.5	1.0213	10.5	1.0032	35.5	0.9854	60.5	0.9679	85.5	0.9506
-14.0	1.0210	11.0	1.0029	36.0	0.9850	61.0	0.9675	86.0	0.9502
-13.5	1.0206	11.5	1.0025	36.5	0.9847	61.5	0.9672	86.5	0.9499
-13.0	1.0203	12.0	1.0022	37.0	0.9843	62.0	0.9668	87.0	0.9495
-12.5	1.0199	12.5	1.0018	37.5	0.9840	62.5	0.9665	87.5	0.9492
-12.0	1.0195	13.0	1.0014	38.0	0.9836	63.0	0.9661	88.0	0.9489
-11.5	1.0192	13.5	1.0011	38.5	0.9833	63.5	0.9658	88.5	0.9485
-11.0	1.0188	14.0	1.0007	39.0	0.9829	64.0	0.9654	89.0	0.9482
-10.5	1.0185	14.5	1.0004	39.5	0.9826	64.5	0.9651	89.5	0.9478
-10.0	1.0181	15.0	1.0000	40.0	0.9822	65.0	0.9647	90.0	0.9475
-9.5	1.0177	15.5	0.9996	40.5	0.9819	65.5	0.9644	90.5	0.9472
-9.0	1.0174	16.0	0.9993	41.0	0.9815	66.0	0.9640	91.0	0.9468
-8.5	1.0170	16.5	0.9989	41.5	0.9812	66.5	0.9637	91.5	0.9465
-8.0	1.0166	17.0	0.9986	42.0	0.9808	67.0	0.9633	92.0	0.9461
-7.5	1.0163	17.5	0.9982	42.5	0.9805	67.5	0.9630	92.5	0.9458
-7.0	1.0159	18.0	0.9978	43.0	0.9801	68.0	0.9626	93.0	0.9455
-6.5	1.0155	18.5	0.9975	43.5	0.9798	68.5	0.9623	93.5	0.9451
-6.0	1.0151	19.0	0.9971	44.0	0.9794	69.0	0.9619	94.0	0.9448
-5.5	1.0148	19.5	0.9968	44.5	0.9791	69.5	0.9616	94.5	0.9444
-5.0	1.0144	20.0	0.9964	45.0	0.9787	70.0	0.9612	95.0	0.9441
-4.5	1.0140	20.5	0.9961	45.5	0.9784	70.5	0.9609	95.5	0.9438
-4.0	1.0137	21.0	0.9957	46.0	0.9780	71.0	0.9605	96.0	0.9434
-3.5	1.0133	21.5	0.9954	46.5	0.9777	71.5	0.9602	96.5	0.9431
-3.0	1.0130	22.0	0.9950	47.0	0.9773	72.0	0.9598	97.0	0.9427
-2.5	1.0126	22.5	0.9947	47.5	0.9770	72.5	0.9595	97.5	0.9424
-2.0	1.0122	23.0	0.9943	48.0	0.9766	73.0	0.9592	98.0	0.9421
-1.5	1.0119	23.5	0.9940	48.5	0.9763	73.5	0.9588	98.5	0.9417
-1.0	1.0115	24.0	0.9936	49.0	0.9759	74.0	0.9585	99.0	0.9414
-0.5	1.0112	24.5	0.9933	49.5	0.9756	74.5	0.9581	99.5	0.9410

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<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>
100.0	0.9407	125.0	0.9238	150.0	0.9072	175.0	0.8909	200.0	0.8749
100.5	0.9404	125.5	0.9235	150.5	0.9069	175.5	0.8906	200.5	0.8746
101.0	0.9400	126.0	0.9231	151.0	0.9065	176.0	0.8903	201.0	0.8743
101.5	0.9397	126.5	0.9228	151.5	0.9062	176.5	0.8899	201.5	0.8739
102.0	0.9393	127.0	0.9225	152.0	0.9059	177.0	0.8896	202.0	0.8736
102.5	0.9390	127.5	0.9222	152.5	0.9056	177.5	0.8893	202.5	0.8733
103.0	0.9387	128.0	0.9218	153.0	0.9052	178.0	0.8890	203.0	0.8730
103.5	0.9383	128.5	0.9215	153.5	0.9049	178.5	0.8887	203.5	0.8727
104.0	0.9380	129.0	0.9212	154.0	0.9046	179.0	0.8883	204.0	0.8723
104.5	0.9376	129.5	0.9208	154.5	0.9042	179.5	0.8880	204.5	0.8720
105.0	0.9373	130.0	0.9205	155.0	0.9039	180.0	0.8877	205.0	0.8717
105.5	0.9370	130.5	0.9202	155.5	0.9036	180.5	0.8874	205.5	0.8714
106.0	0.9366	131.0	0.9198	156.0	0.9033	181.0	0.8871	206.0	0.8711
106.5	0.9363	131.5	0.9195	156.5	0.9029	181.5	0.8867	206.5	0.8708
107.0	0.9359	132.0	0.9191	157.0	0.9026	182.0	0.8864	207.0	0.8705
107.5	0.9356	132.5	0.9188	157.5	0.9023	182.5	0.8861	207.5	0.8702
108.0	0.9353	133.0	0.9185	158.0	0.9020	183.0	0.8858	208.0	0.8698
108.5	0.9349	133.5	0.9181	158.5	0.9017	183.5	0.8855	208.5	0.8695
109.0	0.9346	134.0	0.9178	159.0	0.9013	184.0	0.8851	209.0	0.8692
109.5	0.9342	134.5	0.9174	159.5	0.9010	184.5	0.8848	209.5	0.8689
110.0	0.9339	135.0	0.9171	160.0	0.9007	185.0	0.8845	210.0	0.8686
110.5	0.9336	135.5	0.9168	160.5	0.9004	185.5	0.8842	210.5	0.8683
111.0	0.9332	136.0	0.9164	161.0	0.9000	186.0	0.8839	211.0	0.8680
111.5	0.9329	136.5	0.9161	161.5	0.8997	186.5	0.8835	211.5	0.8676
112.0	0.9325	137.0	0.9158	162.0	0.8994	187.0	0.8832	212.0	0.8673
112.5	0.9322	137.5	0.9155	162.5	0.8991	187.5	0.8829	212.5	0.8670
113.0	0.9319	138.0	0.9151	163.0	0.8987	188.0	0.8826	213.0	0.8667
113.5	0.9315	138.5	0.9148	163.5	0.8984	188.5	0.8823	213.5	0.8664
114.0	0.9312	139.0	0.9145	164.0	0.8981	189.0	0.8819	214.0	0.8660
114.5	0.9308	139.5	0.9141	164.5	0.8977	189.5	0.8816	214.5	0.8657
115.0	0.9305	140.0	0.9138	165.0	0.8974	190.0	0.8813	215.0	0.8654
115.5	0.9302	140.5	0.9135	165.5	0.8971	190.5	0.8810	215.5	0.8651
116.0	0.9298	141.0	0.9131	166.0	0.8968	191.0	0.8807	216.0	0.8648
116.5	0.9295	141.5	0.9128	166.5	0.8964	191.5	0.8803	216.5	0.8645
117.0	0.9292	142.0	0.9125	167.0	0.8961	192.0	0.8800	217.0	0.8642
117.5	0.9289	142.5	0.9122	167.5	0.8958	192.5	0.8797	217.5	0.8639
118.0	0.9285	143.0	0.9118	168.0	0.8955	193.0	0.8794	218.0	0.8635
118.5	0.9282	143.5	0.9115	168.5	0.8952	193.5	0.8791	218.5	0.8632
119.0	0.9279	144.0	0.9112	169.0	0.8948	194.0	0.8787	219.0	0.8629
119.5	0.9275	144.5	0.9108	169.5	0.8945	194.5	0.8784	219.5	0.8626
120.0	0.9272	145.0	0.9105	170.0	0.8942	195.0	0.8781	220.0	0.8623
120.5	0.9269	145.5	0.9102	170.5	0.8939	195.5	0.8778	220.5	0.8620
121.0	0.9265	146.0	0.9098	171.0	0.8935	196.0	0.8775	221.0	0.8617
121.5	0.9262	146.5	0.9095	171.5	0.8932	196.5	0.8771	221.5	0.8614
122.0	0.9258	147.0	0.9092	172.0	0.8929	197.0	0.8768	222.0	0.8611
122.5	0.9255	147.5	0.9089	172.5	0.8926	197.5	0.8765	222.5	0.8608
123.0	0.9252	148.0	0.9085	173.0	0.8922	198.0	0.8762	223.0	0.8604
123.5	0.9248	148.5	0.9082	173.5	0.8919	198.5	0.8759	223.5	0.8601
124.0	0.9245	149.0	0.9079	174.0	0.8916	199.0	0.8755	224.0	0.8598
124.5	0.9241	149.5	0.9075	174.5	0.8912	199.5	0.8752	224.5	0.8595

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<b>t</b>	<b>M</b>	<b>t</b>	<b>M</b>
225.0	0.8592	250.0	0.8437
225.5	0.8589	250.5	0.8434
226.0	0.8586	251.0	0.8431
226.5	0.8582	251.5	0.8428
227.0	0.8579	252.0	0.8425
227.5	0.8576	252.5	0.8422
228.0	0.8573	253.0	0.8418
228.5	0.8570	253.5	0.8415
229.0	0.8566	254.0	0.8412
229.5	0.8563	254.5	0.8409
230.0	0.8560	255.0	0.8406
230.5	0.8557	255.5	0.8403
231.0	0.8554	256.0	0.8400
231.5	0.8551	256.5	0.8397
232.0	0.8548	257.0	0.8394
232.5	0.8545	257.5	0.8391
233.0	0.8541	258.0	0.8388
233.5	0.8538	258.5	0.8385
234.0	0.8535	259.0	0.8382
234.5	0.8532	259.5	0.8379
235.0	0.8529	260.0	0.8376
235.5	0.8526	260.5	0.8373
236.0	0.8523	261.0	0.8370
236.5	0.8520	261.5	0.8367
237.0	0.8517	262.0	0.8364
237.5	0.8514	262.5	0.8361
238.0	0.8510	263.0	0.8357
238.5	0.8507	263.5	0.8354
239.0	0.8504	264.0	0.8351
239.5	0.8501	264.5	0.8348
240.0	0.8498	265.0	0.8345
240.5	0.8495	265.5	0.8342
241.0	0.8492	266.0	0.8339
241.5	0.8489	266.5	0.8336
242.0	0.8486	267.0	0.8333
242.5	0.8483	267.5	0.8330
243.0	0.8480	268.0	0.8326
243.5	0.8477	268.5	0.8323
244.0	0.8474	269.0	0.8320
244.5	0.8471	269.5	0.8317
245.0	0.8468	270.0	0.8314
245.5	0.8465	270.5	0.8311
246.0	0.8462	271.0	0.8308
246.5	0.8459	271.5	0.8305
247.0	0.8456	272.0	0.8302
247.5	0.8453	272.5	0.8299
248.0	0.8449	273.0	0.8296
248.5	0.8446	273.5	0.8293
249.0	0.8443	274.0	0.8290
249.5	0.8440	274.5	0.8287