

Dew Point

Mellcon dew Point Apparatus is the most economical, simple, errorless system for the spot checking of Dew Point temperature of any compressed Air / Gases. This consists of a closed cylindrical glass with two chrome Plated tubes, a low range thermometer (-50+40 Deg.C) and a dry Ice Maker.

Air / Gas enters to cylindrical glass through one chrome Plated tube and Exhausts. The other chrome plated tube is centrally placed in the cylindrical glass and thermometer is placed in it. Make dry ice (Solid CO₂) with the help of dry ice maker & a CO₂ Gas cylinder. Pour some ether / acetone in the chrome plated tube having thermometer, And slowly put dry ice pieces into this liquid to reduce the wall temperature of the chrome plated tube. At a particular temperature the dew / frost will start forming on the walls of the tube and the same temperature can be noted from the thermometer. This is the dew Point temperature of that particular Air / Gas.



[\[Click here for Dew Point Conversion Chart\]](#)

Sr.No.	Dew Point Deg C	Moisture Content		Sr.No.	Dew Point Deg C	Moisture Content	
		g / NM ³	ppm Volume			g / NM ³	ppm Volume
01	-90	0.0000767	0.0953	41	+0	4.84	6020
02	-80	0.000434	0.54	42	+1	5.21	6480
03	-70	0.00207	2.57	43	+2	5.59	6953
04	-60	0.00857	10.7	44	+3	6.02	7487
05	-55	0.0166	20.6	45	+4	6.45	8022
06	-50	0.0317	39.4	46	+5	6.91	8595
07	-48	0.0399	49.6	47	+6	7.41	9216
08	-46	0.0507	63.0	48	+7	7.94	9875
09	-44	0.0642	80.1	49	+8	8.51	10584
10	-42	0.0816	101.5	50	+9	9.10	11318
11	-40	0.102	126.9	51	+10	9.74	12114
12	-38	0.127	158.0	52	+11	10.4	12935
13	-36	0.159	197.8	53	+12	11.1	13806
14	-34	0.197	245	54	+13	11.9	14800
15	-32	0.244	303	55	+14	12.7	15796
16	-30	0.301	374	56	+15	13.5	16791
17	-28	0.371	461	57	+16	14.4	17885
18	-26	0.454	564	58	+17	15.4	19030
19	-24	0.554	689	59	+18	16.4	20396
20	-22	0.675	840	60	+19	17.4	21641
21	-20	0.816	1015	61	+20	18.5	23020
22	-19	0.899	1118	62	+21	19.7	24502
23	-18	0.989	1231	63	+22	21.0	26120
24	-17	1.09	1356	64	+23	22.3	27736
25	-16	1.19	1480	65	+24	23.7	29477
26	-15	1.31	1630	66	+25	25.1	31219
27	-14	1.43	1779	67	+26	26.7	33209
28	-13	1.57	1953	68	+27	28.3	35200
29	-12	1.72	2140	69	+28	30.0	37312
30	-11	1.80	2338	70	+29	31.8	39551
31	-10	2.06	2562	71	+30	33.6	41791
32	-9	2.25	2798	72	+35	44.6	55472
33	-8	2.45	3047	73	+40	58.5	71761
34	-7	2.68	3333	74	+45	76.0	94527
35	-6	2.92	3632	75	+50	97.8	120398
36	-5	3.18	3955	76	+55	125	155472
37	-4	3.46	4303	77	+60	158	196517
38	-3	3.77	4690	78	+70	247	307212
39	-2	4.10	5100	79	+80	376	467662
40	-1	4.46	5547	80	+90	556	691542