

Equilibrium Moisture Content (EMC) Chart

This chart provides the equilibrium moisture content for wood based on a shop's humidity and temperature. Measure the humidity with a hygrometer, check the shop temperature, and look up the numbers in the chart.

RELATIVE HUMIDITY %	AMBIENT AIR TEMP (DEG. F)							
	30	40	50	60	70	80	90	100
5	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2
10	2.6	2.6	2.6	2.5	2.5	2.4	2.3	2.3
15	3.7	3.7	3.6	3.6	3.5	3.5	3.4	3.3
20	4.6	4.6	4.6	4.6	4.5	4.4	4.3	4.2
25	5.5	5.5	5.5	5.4	5.4	5.3	5.1	5.0
30	6.3	6.3	6.3	6.2	6.2	6.1	5.9	5.8
35	7.1	7.1	7.1	7.0	6.9	6.8	6.7	6.5
40	7.9	7.9	7.9	7.8	7.7	7.6	7.4	7.2
45	8.7	8.7	8.7	8.6	8.5	8.3	8.1	7.9
50	9.5	9.5	9.5	9.4	9.2	9.1	8.9	8.7
55	10.4	10.4	10.3	10.2	10.1	9.9	9.7	9.5
60	11.3	11.3	11.2	11.1	11.0	10.8	10.5	10.3
65	12.4	12.3	12.3	12.1	12.0	11.7	11.5	11.2
70	13.5	13.5	13.4	13.3	13.1	12.9	12.6	12.3
75	14.9	14.9	14.8	14.6	14.4	14.2	13.9	13.6
80	16.5	16.5	16.4	16.2	16.0	15.7	15.4	15.1
85	18.5	18.5	18.4	18.2	17.9	17.7	17.3	17.0
90	21.0	21.0	20.9	20.7	20.5	20.2	19.8	19.5
95	24.3	24.3	24.3	24.1	23.9	23.6	23.3	22.9
98	26.9	26.9	26.9	26.8	26.6	26.3	26.0	25.6

Figures based on data provided by the U.S. Forest Products Laboratory