

## Important Benchmarks

- ( -27 ) Risk of frostbite in prolonged exposures (similar to previous 1800 watts/m2)
- ( -35 ) Frostbite possible in 10-15 minutes (similar to previous 2000 watts/m2)
- ( -40 ) Wind chill warning will be issued. Frostbite possible in less than 10 minutes (similar to the previous 2200 watts/m2)
- ( -45 ) Be ready to cut short or cancel outdoor activities. Frostbite possible in minutes.
- ( -60 ) DANGER! Frostbite possible in under 2 minutes (similar to 2700 watts/m2)

Want to calculate your own wind chill? Here is the formula

$T_{air}$  = air temperature,  $V$  = wind (km/h):

$$WC = 13.12 + 0.6215 \times T_{air} - 11.37 \times V^{0.16} + 0.3965 \times T_{air} \times V^{0.16}$$

### Wind Chill Chart - Temperature (°C) / Wind Speed (km/h)

	5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C	-40°C	-45°C
5 km/h	4	-2	-7	-13	-19	-24	-30	-36	-41	-47	-53
10 km/h	3	-3	-9	-15	-21	-27	-33	-39	-45	-51	-57
15 km/h	2	-4	-11	-17	-23	-29	-35	-41	-48	-54	-60
20 km/h	1	-5	-12	-18	-24	-30	-37	-43	-49	-56	-62
25 km/h	1	-6	-12	-19	-25	-32	-38	-44	-51	-57	-64
30 km/h	0	-6	-13	-20	-26	-33	-39	-46	-52	-59	-65
35 km/h	0	-7	-14	-20	-27	-33	-40	-47	-53	-60	-66
40 km/h	-1	-7	-14	-21	-27	-34	-41	-48	-54	-61	-68
45 km/h	-1	-8	-15	-21	-28	-35	-42	-48	-55	-62	-69
50 km/h	-2	-8	-15	-22	-29	-35	-42	-49	-56	-63	-69
55 km/h	-2	-8	-15	-22	-29	-36	-43	-50	-57	-63	-70
60 km/h	-2	-9	-16	-23	-30	-36	-43	-50	-57	-64	-71
65 km/h	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72
70 km/h	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72
75 km/h	-3	-10	-17	-24	-31	-38	-45	-52	-59	-66	-73
80 km/h	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74