

Administrative Procedure 710 – Appendix A

WIND CHILL CALCULATION CHART

Where T air = Air temperature in °C and V10 = Observed wind speed at 10m elevation, in km/h.

T air	-20	-25	-30	-35	-40
V 10					
5	-24	-30	-36	-41	-47
10	-27	-33	-39	-45	-51
15	-29	-35	-41	-48	-54
20	-31	-37	-43	-49	-56
25	-32	-38	-45	-51	-57
30	-33	-39	-46	-52	-59
35	-33	-40	-47	-53	-60
40	-34	-41	-48	-54	-61
45	-35	-42	-48	-55	-62
50	-35	-42	-49	-56	-63
55	-36	-43	-50	-57	-63
60	-37	-43	-50	-57	-64
65	-37	-44	-51	-58	-65
70	-37	-44	-51	-59	-66
75	-38	-45	-52	-59	-66
80	-38	-45	-52	-60	-67

Approximate Thresholds:

Risk of frostbite in prolonged exposure at -27

Frostbite possible in 10 minutes at -35

Frostbite possible in less than 2 minutes at

Wind Chill below:

-27 Warm skin, suddenly exposed.
Shorter time if skin is cool at the start.

-35 Warm skin, suddenly exposed.
Shorter time if skin is cool at the start.

-60 Warm skin, suddenly exposed. Shorter time if skin is cool at the start.