

Ground material	Porosity	Residual water content	Van Genuchten parameter	Van Genuchten parameter	Intrinsic permeability	Saturated (thawed) thermal conductivity	Saturated (frozen) thermal conductivity	Dry thermal conductivity
	ϕ ($\text{m}^3 \text{ m}^{-3}$)	θ_r ($\text{m}^3 \text{ m}^{-3}$)	α (cm^{-1})	m (unitless)	k (m^2)	λ_s ($\text{W m}^{-1} \text{ K}^{-1}$)	λ_{sf} ($\text{W m}^{-1} \text{ K}^{-1}$)	λ_u ($\text{W m}^{-1} \text{ K}^{-1}$)
Upper peat	0.80	0.08	0.02	0.30	5×10^{-11}	0.6	1.8	0.10
Lower peat	0.70	0.07	0.02	0.40	2×10^{-12}	0.75	1.9	0.12
Mineral soil	0.50	0.10	5.4×10^{-4}	0.19	2×10^{-13}	1.0	2.0	0.29
Ice wedge	0.99	0.00	5.4×10^{-4}	0.19	0.0	0.59	2.2	N/A