

Name	Symbol	Value	Unit
Velocity	u	–	m yr^{-1}
Stress tensor	σ	–	MPa
Pressure	P	–	MPa
Enthalpy	H	–	J kg^{-1}
Temperature	T	–	K
Water content	ω	–	–
Density	ρ	–	kg m^{-3}
Firn thickness	H_{firn}	–	m
Friction coefficient	β	–	MPa yr m^{-1}
Flow rate factor	A	$f(T)^a$	MPa yr^{-1}
Glenn's law exponent	n	3	–
Basal heat flux	f_b	0.080	W m^{-2}
Thermal conductivity	k	$f(\rho)^b$	$\text{W K}^{-1} \text{m}^{-1}$
Heat capacity	C_p	$f(T)^c$	$\text{J kg}^{-1} \text{K}^{-1}$
Maximum water content	ω_{max}	0.03	–
Moisture diffusivity	κ_0	1.045×10^{-4}	$\text{kg m}^{-1} \text{s}^{-1}$
Residual saturation in firn	S_r	0.01^3	–
Firn surface density	ρ_0	350	kg m^{-3}