

Symbol	Description	Value	Unit
$\beta$	Clausius–Clapeyron constant	$8.7 \times 10^{-4}$	$\text{K m}^{-1}$
$g$	Gravitational acceleration	9.81	$\text{m s}^{-2}$
$\rho$	Ice density	910	$\text{kg m}^{-3}$
$\rho_w$	Water density	1000	$\text{kg m}^{-3}$
$n$	Exponent in Glen’s flow law	3	–
$\dot{\epsilon}_0$	viscosity regularization	$10^{-30}$	$\text{a}^{-1}$
$A_0$	Flow law parameter		
	when $T \leq 263.15 \text{ K}$	$3.985 \times 10^{-13}$	$\text{Pa}^{-3} \text{ s}^{-1}$
	when $T > 263.15 \text{ K}$	$1.916 \times 10^3$	$\text{Pa}^{-3} \text{ s}^{-1}$
$Q$	Creep activation energy		
	when $T \leq 263.15 \text{ K}$	60	$\text{kJ mol}^{-1}$
	when $T > 263.15 \text{ K}$	139	$\text{kJ mol}^{-1}$
$R$	Universal gas constant	8.31	$\text{J mol}^{-1} \text{ K}^{-1}$
$k$	Thermal conductivity	2.1	$\text{W m}^{-1} \text{ K}^{-1}$
$c_p$	Heat capacity of ice	2009	$\text{J kg}^{-1} \text{ K}^{-1}$
$L$	Latent heat of fusion of ice	$3.35 \times 10^{-5}$	$\text{J kg}^{-1}$
$T_0$	Triple-point temperature of water	273.16	$\text{K}$