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NOMENCLATURE

A_{mush}	Mushy constant, Kg. s-1
c	Specific heat, J. kg-1. K-1
C_f	Inertial drag factor
d	Diameter, m

g	gravitational acceleration, m.s-2
H_L	Latent Heat of PCM, J. kg-1
k	Thermal conductivity, W.m-1. K-1
K	Permeability, m2
p	Relative Pressure, Pa
S, \vec{s}	Source term
t	Time, s
T	local temperature, K
V, \vec{v}	Velocity of liquid PCM, m.s-1
Vol	Volume [m3]

Greek symbols

β	Liquid Fraction
γ	Thermal expansion coefficient, K-1
ψ	volume Fraction
ε	porosity
μ	dynamic viscosity, kg. m-1.s-1
ρ	Density, kg. m-3

Subscripts

0	Reference quantity
Al_2O_3	Oxide aluminum
eff	effective
f	Foam fiber
Liquidus	Liquidus
m	Metal foam
NANOPCM	nanopcm
p	Foam pore
PARTICLES	Nanoparticles of Al_2O_3
PCM	Phase change material
Solidus	Solidus
TOTAL	Total quantity