

ICING PROCESS

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Nomenclature

A	area	LWC	air liquid water content
c	chord	\dot{m}	mass flow
c_d	drag coefficient	m	molecular mass
C_f	friction coefficient	M	rotation moment
c_p	const. pressure spec. heat	MVD	mean droplet dimension
c_w	spec. heat of liquid water	Nu	Nusselt number
d	droplet dimension, diameter	p	static pressure
D	drag force, body characteristic dimension	Pr	Prandtl number
e^{sat}	water saturation pressure	p^0	total pressure
E	total collection efficiency	\dot{q}	heat flux
f	freezing fraction	r	radius or recovery factor
h	enthalpy	R	blade length
h^0	total enthalpy	Re	Reynolds number
h_c	convective heat transfer coefficient	R_G	universal gas constant
k	(c_p/c_v)	R_h	relative humidity
K_A	wetness fraction	s	surface coordinate
K_L	Langmuir parameter	t	thickness, time
K_s	standard sand grain roughness	T	temperature
L	lift force, Lewis number	T^0	total air temperature