cuaporation Droplet injection, wapretion, mining, droplets mining Surface Arca. drop WB droplets to evaprote. fine dreblets evaporate Engine Scramit 11/=2 @ loook a = 580m/s > 1160m/s 10 m as

[0 ms

Evaporation is the Money process

{ vaporation time  $t_V = \frac{S_1 d_0}{8(kg/c_{P_0}) \ln(1+B_V)}$ S, -) density of liquid

do - initial dia of the droplet. kg, Gg -> Thermal Conductivity & Jecificheat. By -> Iransfur no. for evaporation. Evaporation to 2 do Combustion temp. B<sub>v</sub> = C<sub>P8</sub>(T<sub>c</sub>-T<sub>b</sub>) Gr (Tb-To)+L Aliquid temp at liquid latent heat of Vaporization Speific heat experiments. Stryl. Actate - Low boiling Pt Petrol - higher boilig pt - droblet of known

Juicset atmosphere.