

:
 .() -2 . -1
 : -1

$$D \cong \frac{q \cdot v \cdot s}{p \cdot d \cdot a}$$

q a S d p
 (D) ()

:
 . -1
 8010 -2

. 8070

1 (80) 80 : 8070
 80 8010 / 7
 /
 (μm vmd)

.()
 The vmd = volume medium diameter

μm ()

:
 . -1

air born drift

-2

.polymers, cellulose-alginate

50)

(50 μm

phase crowded emulsion

%20 - 10

.%90 - 80

) (-)

.(

()

(inverted emulsion)

(W/O)

%10

%90

$$q = \frac{T}{V.S.P}$$

(T,V,S,P)

:

50

aerosol

100 - 51

mist

200 - 101

fine spray

400 - 201

medium

spray

400

coarse spray

classification graticule -1

.Fleming particle size analyzer -2

an image-analysing computer -3

-4

-5

d1

N2

d2

N1

:

$$N2 = N1 \left(\frac{d1}{d2} \right)^3$$

$$500 = 100 \left(\frac{100}{20} \right)^3$$

$$N2 = N1 \left(\frac{d1}{d2} \right)^3$$

$$N2 = 500 \left(\frac{100}{20} \right)^3 = 62500 \text{ drops}$$

vdm

.vdm

$$n = \frac{60}{\pi} \left(\frac{100}{d} \right)^3 Q$$

$$\frac{60}{\pi} \left(\frac{100}{d} \right)^3 Q = n$$

(μm))	2	/
10		19099	
20		2387	
100		19	
1000		0.019	