LAMPIRAN

PERHITUNGAN HASIL ANALISA

Tabel 6. Hasil Analisa Cake

Variabel Bukaan	Plate	Cawan Basah			Cawan Kering		
		I	II	III	I	II	III
½	I	270,32	292,65	288,81	261,02	278,87	281,14
	II	240,19	269,87	259,25	231,87	258,47	249,16
	III	227,17	210,32	233,31	218,75	201,03	222,29
1	I	228,28	248,88	240,67	219,03	238,13	231,56
	II	212,87	231,97	218,09	201,78	222,51	209,77
	III	203,07	212,1	198,06	190,87	203,9	190,37

Tabel 7. Hasil Analisa Densitas dan Viskositas

Variabel Bukaan	m (piknometer isi)		tx (waktu alir)	
	Sebelum	Sesudah	Sebelum	Sesudah
½	50,23	48,98	1,20	1,10
1	50,23	49,78	1,20	1,15

1. Perhitungan Hasil Analisa

1.1. Cake Basah

Rumus :

Cake = Cawan Basah (isi) – Cawan Kosong

1.1.2. Variabel Bukaan ½

a. Plate I

I. Cake = 270,32 – 42.76 = 227.56

II. Cake = 292,87 – 47.90 = 244.97

III. Cake = 288,81 – 43.45 = 245.36

Total = 717.89

b. Plate II

I. Cake = 240.19 – 42.85 = 197.34

II. Cake = 269.87 – 47.11 = 222.73

III. Cake = 259.25- 42.90 = 216.35

Total = 636.42

c. Plate III

I. Cake = 227.17 – 43.22 = 183.95

II. Cake = 210.32 – 46.12 = 164.20

III. Cake = 233.31 – 43.14 = 190.17

Total = 538.32

1.1.3. Variabel Bukaan 1

a. Plate I

I. Cake = 228.28 – 43.31 = 184.97

II. Cake = 248.88 – 48.16 = 200.72

III. Cake = 240.67 – 42.28 = 198.39

Total = 584.01

b. Plate II

I. Cake = 212.87 – 43.99 = 168.88

II. Cake = 231.97 – 47.19 = 184.78

III. Cake = 218.09 – 43.36 = 174.73

Total = 528.39

c. Plate III

I. Cake = 203.07 – 42.78 = 160.29

II. Cake = 212.10 – 48.03 = 164.07

III. Cake = 198.06 – 42.25 = 155.81

Total = 480.17

1.2. Cake Kering

Rumus :

Cake = Cawan kering (isi) – Cawan Kosong

1.2.2. Variabel Bukaan ½ bukaan

a. Plate I

I. Cake = 261.02 – 42.76 = 218.26

II. Cake = 278.87 – 47.90 = 230.97

III. Cake = 281.14 – 43.45 = 237.69

Total = 686.92

b. Plate II

I. Cake = 231.87 – 42.85 = 189.02

II. Cake = 258.47 – 47.11 = 211.36

III. Cake = 249.16 – 42.90 = 206.26

Total = 606.64

c. Plate III

I. Cake = 218.75 – 43.22 = 175.53

II. Cake = 201.03 – 46.12 = 154.91

III. Cake = 222.29 – 43.14 = 179.15

Total = 509.59

1.2.3 Variabel Bukaan 1 Bukaan

a. Plate I

I. Cake = 219.03 – 43.31 = 175.72

II. Cake = 238.13 – 48.16 = 189.97

III. Cake = 231.56 – 42.28 = 189.28

Total = 554.97

b. Plate II

I. Cake = 201.78 – 43.99 = 157.79

II. Cake = 222.51 – 47.19 = 175.32

III. Cake = 209.77 – 43.36 = 166.41

Total = 499.52

c. Plate III

I. Cake = 190.87 – 42.78 = 148.09

II. Cake = 203.90 – 48.03 = 155.87

III. Cake = 190.37 – 42.25 = 148.12

Total = 452.08

1.3. Densitas

$$\rho = \frac{m}{v}$$

1.3.2. Variabel 1/2 Bukaan

a. Sebelum

$\rho = \frac{50.23-23.01}{25}$= 1,0888 gram/ml

b. Sesudah

$\rho = \frac{48,98-23.01}{25}$= 1,0388 gram/ml

1.3.3 Variabel 1 Bukaan

a. Sebelum

$\rho = \frac{50.23-23,01}{25}$= 1,0888 gram/ml

b. Sesudah

$\rho = \frac{49,78-23,01}{25}$= 1,0708 gram/ml

1.4. Viskositas

$$\mu x = \frac{dx.tx}{do.to}\mu o$$

1.4.2. Variabel ½ Bukaan

a. Sebelum

$$\mu x = \frac{1{,}20\ .1{,}0888}{1\ .1}\ 1 = 1{,}30656\ cp$$

b. Sesudah

$$\mu x = \frac{1{,}10\ .\ 1{,}0388}{1\ .\ 1}\ 1 = 1{,}14268\ cp$$

1.4.1. Variabel 1 Bukaan

a. Sebelum

$$\mu x = \frac{1{,}20\ .\ 1{,}0888}{1\ .\ 1}\ 1 = 1{,}30656\ cp$$

b. Sesudah

$$\mu x = \frac{1{,}15\ .\ 1{,}0708}{1\ .\ 1}\ 1 = 1{,}23142\ cp$$

Kadar Air

a. Variabel ½ bukaan

- Plate I

Kadar Air = $\frac{717{,}89 - 686{,}92}{717{,}89}$ x 100 %

= 4,31 %

- Plate II

Kadar Air = $\frac{636{,}42 - 606{,}64}{636{,}42}$ x 100 %

= 4,67 %

- Plate III

Kadar Air = $\frac{538{,}32 - 505{,}59}{538{,}32}$ x 100 %

= 5,34 %

b. Variabel 1

- Plate I

  Kadar Air = $\frac{584,01 - 554,97}{584,01} \times 100\ \%$

  = 4,97 %

- Plate II

  Kadar Air = $\frac{528,39 - 499,52}{528,39} \times 100\ \%$

  = 5,46 %

- Plate III

  Kadar Air = $\frac{480,17 - 452,08}{480,17} \times 100\ \%$

  = 6,21 %