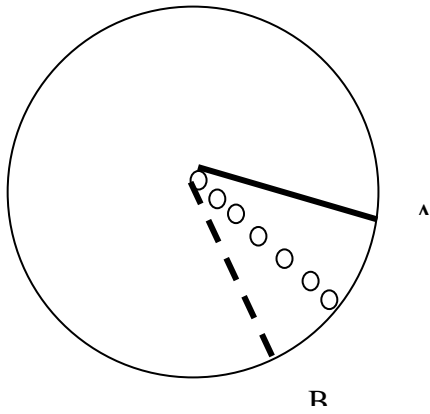


(التجربة العملية الثالثة)

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(A)

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$$C_u = \left[1 - \frac{\sum_{i=1}^{i=N} W_i \left| \frac{X_i}{D_w} - 1 \right|}{\sum_{i=1}^{i=N} W_i} \right] \times 100$$

: (**C_u**)

:
= N
= X_i
= W_i
= D_w

$$D_w = \frac{\sum_{i=1}^{i=N} (W_i \times X_i)}{\sum_{i=1}^{i=N} W_i}$$

: (**D_u**)

$$D_u = \frac{d_w}{D_w} \times 100$$

(%)

:
= D_u
= D_w
= d_w

: (**E_a**)

$$E_a = \frac{D_w}{D_g} \times 100$$

: (**PELQ**)

$$PELQ = D_u \times E_a = \frac{d_w}{D_w} \times \frac{D_w}{D_g} \times 100 = \frac{d_w}{D_g} \times 100$$

$$D_g = \frac{T_{rev} \times Q_s}{A}$$

$$D_g = D_w + E_v$$

$$= E_v$$

: (E)

$$E = \frac{D_g - D_w}{D_g} \times 100$$

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1	2	3	4	5	6	7	8	9	10	11	12
	Can	Volume	Depth	Weight	$\frac{X_i}{D_w} - 1$	$W_i \cdot \frac{X_i}{D_w} - 1$	Sorted	Can	Weight	Sum	Sum
Span	No	V	Xi	Depth			Depth	No	Depth	Can	Weight
No	Wi	(ml)	(mm)	Wi * Xi			Xi (mm)		Sort	No	Depth
1	1	18	2.29	2.29	0.38	0.38	2.16	23	49.78	23	49.78
	2	17	2.16	4.33	0.41	0.82	2.29	15	34.38	38	84.16
	3	29	3.69	11.08	0.00	0.01	2.29	16	36.67	54	120.83
	4	19	2.42	9.68	0.34	1.37	2.42	4	9.68	58	130.50
	5	22	2.80	14.01	0.24	1.19	2.67	7	18.72	65	149.22
	6	21	2.67	16.04	0.27	1.64	2.67	30	80.21	95	229.43
	7	24	3.06	21.39	0.17	1.18	2.74	20	54.75	115	284.18
	8	35	4.46	35.65	0.21	1.70	2.80	10	28.01	125	312.19
2	9	24	3.06	27.50	0.17	1.52	3.06	9	27.50	134	339.70
	10	31	3.95	39.47	0.07	0.74	3.06	28	85.56		
	11	24	3.06	33.61	0.17	1.86	3.06	11	33.61		
	12	28	3.57	42.78	0.03	0.36	3.18	18	57.30		
	13	37	4.71	61.24	0.28	3.66	3.18	26	82.76		
	14	18	2.29	32.09	0.38	5.27	3.18	29	92.31		
	15	31	3.95	59.21	0.07	1.11	3.31	6	19.86		
	16	25	3.18	50.93	0.13	2.15	3.44	8	27.50		
3	17	30	3.82	64.94	0.04	0.66	3.57	17	60.61		
	18	37	4.71	84.80	0.28	5.07	3.57	31	110.52		
	19	34	4.33	82.25	0.18	3.38	3.69	41	51.69		
	20	35	4.46	89.13	0.21	4.25	3.82	3	11.46		
	21	28	3.57	74.87	0.03	0.63	3.82	21	80.21		
	22	21	2.67	58.82	0.27	6.00	3.95	13	51.31		
	23	27	3.44	79.07	0.06	1.49	3.95	5	19.74		
	24	31	3.95	94.73	0.07	1.77	3.95	24	94.73		
4	25	30	3.82	95.49	0.04	0.98	4.07	1	4.07		
	26	32	4.07	105.93	0.11	2.82	4.33	2	8.66		
	27	25	3.18	85.94	0.13	3.62	4.33	12	51.95		
	28	25	3.18	98.13	0.13	3.75	4.46	19	84.67		
	29	26	3.31	96.00	0.10	2.88	4.46	22	98.04		
	30	21.5	2.74	82.12	0.26	7.66	4.71	25	117.77		
	31	40	5.09	157.88	0.39	11.95	4.71	32	150.75		
	32	34	4.33	138.53	0.18	5.68	5.09	27	137.51		
$\Sigma =$	528		112	1940.9		87.5					

$$D_w = \frac{1940.9}{528} = 3.676$$

$$C_u = \left[1 - \frac{\sum_{i=1}^{i=n} W_i \left(\frac{X_i}{D_w} - 1 \right)}{\sum_{i=1}^{i=n} W_i} \right] \times 100 = \left[1 - \frac{87.5}{528} \right] \times 100 = 83.5 \%$$

$$d_w = \frac{339.7}{132} = 2.573$$

$$D_u = \frac{d_w}{D_w} \times 100 = \frac{2.573}{3.676} \times 100 = 70 \%$$

(W_i)

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.() (X_i)

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:(Span No)

:(Can No)

:(Volume)

:

:(depth)

=

:(Weight depth)

"

" (W_i)

× "

" (X_i)

=

:

(D_w)

**

=

=

= D_w

$$D_w = \frac{1940.9}{528} = 3.676$$

$$: \left| \frac{X_i}{D_w} - 1 \right|$$

()

=

D_w

×

$$= : \left| \frac{X_i}{D_w} - 1 \right| \times W_i$$

:(C_u)

$$\times (\quad) = C_u$$

$$C_u = \left[1 - \frac{\sum_{i=1}^{i=n} W_i \left(\frac{X_i}{D_w} \right) - 1}{\sum_{i=1}^{i=n} W_i} \right] \times 100 = \left[1 - \frac{87.5}{528} \right] \times 100 = 83.5 \%$$

(X_i) depth Sorted :

$$. (\quad) \quad (\quad) \quad :$$

$$\times \quad = \quad :$$

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$$(\quad) \quad :$$

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$$(\quad = / \quad)$$

$$(\quad)$$

$$d_w =$$

$$d_w = \frac{339.7}{132} = 2.573$$

$$D_u = \frac{d_w}{D_w} \times 100 = \frac{2.573}{3.676} \times 100 = 70 \%$$

$$R_L = \quad L_0 = \quad L = \quad R = \quad D =$$

$$A_i = \quad 2\pi R_L =$$

$$=$$

$$=$$

$$=$$

$$V = \frac{\ell}{t}$$

(ℓ)

(t)

$$T_{rev} = \frac{2\pi R_L}{V}$$

-) (t₀)

$$Q_s = \frac{\sum V_{sp}}{t_0} :$$

$$D_g = \frac{T_{rev} \times Q_s}{A} \quad : \quad D_g$$

(Ea)

(Du)

(cu)

(PELQ)

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Cun No	= cm, t = sec ℓ			= cm, t = sec ℓ			= cm, t = sec ℓ			= cm, t = sec ℓ		
	V _{rev} =			V _{rev} =			V _{rev} =			V _{rev} =		
	Volume (cm ³)			Volume (cm ³)			Volume (cm ³)			Volume (cm ³)		
	Row1	Row2	Row3	Row1	Row2	Row3	Row1	Row2	Row3	Row1	Row2	Row3
1												
2												
3												
4												
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6												
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8												
9												
10												

: ()

Sp. No	V _{rev} =	V _{rev} =	V _{rev} =	V _{rev} =
	sec t _o =	sec t _o =	sec t _o =	sec t _o =
	Volume (cm ³)	Volume (cm ³)	Volume (cm ³)	Volume (cm ³)
1				
2				
3				
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