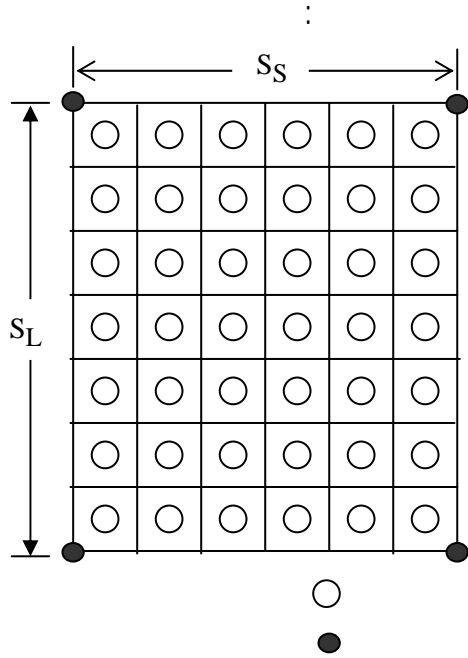


(التجربة الحقلية الثانية)



. S_s S_L -

S_s -

.S_L -

(Q_{sp}) -

S_s S_L -

()

: $D_g = R_a \times T_i$: (Dg) -

$$R_a = \frac{Q_{sp}}{S_s \times S_L} : \quad Ra \quad (\quad / \quad) \quad = T_i$$

$$= R_a$$

: Coefficient of Uniformity (C_u)

$$C_u = \left(1 - \frac{\sum_{i=1}^{i=n} |X_i - \bar{X}|}{n \cdot \bar{X}} \right) \times 100$$

$$(\quad) \quad = X_i \quad :$$

$$. (\quad) \quad = \bar{X}$$

$$= n$$

: Distribution of Uniformity (D_u)

$$D_u = \frac{d}{\bar{X}} \times 100$$

$$:$$

$$= d$$

:(\quad)

(\quad)

: (Ea)

$$E_a = \frac{\bar{X}}{D_g} \times 100$$

: (PELQ)

-

$$PELQ = \frac{d}{D_g} \times 100$$

:

: (E)

$$E = \frac{D_g - \bar{X}}{D_g} \times 100$$

:

1	2	3	4	5
Can No.	Volume V_i (cm ³)	Depth X_i (mm)	$ (X_i - \bar{X}) $ (mm)	X_i Sort (mm)
1	90	11.46	0.46	8.66
2	83	10.57	0.43	8.79
3	80	10.19	0.81	8.92
4	75	9.55	1.45	8.92
5	93	11.85	0.85	9.55
6	88	11.21	0.21	9.68
7	77	9.81	1.19	9.68
8	80	10.19	0.81	9.81
9	100	12.74	1.74	9.94
10	105	13.38	2.38	
11	92	11.72	0.72	
12	88	11.21	0.21	
13	89	11.34	0.34	
14	91	11.59	0.59	
15	70	8.92	2.08	
16	76	9.68	1.32	
17	70	8.92	2.08	
18	85	10.83	0.17	
19	76	9.68	1.32	
20	68	8.66	2.34	
21	79	10.06	0.94	
22	94	11.97	0.97	
23	102	12.99	1.99	
24	97	12.36	1.36	
25	104	13.25	2.25	
26	88	11.21	0.21	
27	86	10.96	0.04	
28	90	11.46	0.46	
29	87	11.08	0.08	
30	69	8.79	2.21	
31	100	12.74	1.74	
32	78	9.94	1.06	
33	84	10.70	0.30	
34	89	11.34	0.34	
35	90	11.46	0.46	
36	97	12.36	1.36	
Σ		396.18	37.27	83.95

$$\bar{X} = \frac{\sum X_i}{n} = \frac{396.18}{36} = 11 \qquad d = \frac{83.95}{9} = 9.33$$

$$C_u = \left(1 - \frac{\sum_{i=1}^{i=n} |X_i - \bar{X}|}{n \times \bar{X}} \right) \times 100 = \left(1 - \frac{37.27}{36 \times 11} \right) \times 100 = 90.6\%$$

$$D_u = \frac{d}{\bar{X}} \times 100 = \frac{9.33}{11} \times 100 = 84.76\%$$