



Experimental and Calculated Data

For

Bodies Cone 9 (1,280°C)

Bodies Cone 8 (1,250°C)

Bodies Cone 6a(1,200°C)

- C_1, C_2 = Column Test specimen for compressive stress
 B_1, B_2 = Bracket Test specimen for Tensile Stress
 b_1, b_2 = Bar or rod Test specimen for Bending Stress
 $\left. \begin{matrix} D_1, D_2 \\ D_3, D_4 \end{matrix} \right\}$ = Dish Test specimen for Electrical Properties

ABBREVIATIONS USED IN THE EXPERIMENT

Legend

- S = Standard body ที่ใช้ดินล่ำปางแทน Kaolin และดินนครนายก
แทน plastic clay
- A = Standard body ที่ใช้ดินล่ำปางแทน Kaolin และดินบ้านนาแทน
plastic clay
- B = Standard boy ที่ใช้ดินเวียงป่าเป้าแทน Kaolin และดินนครนายก
แทน plastic clay
- C = Standard body ที่ใช้ดินเวียงป่าเป้าแทน Kaolin และดินบ้านนาแทน
plastic clay
- D = Standard body ที่ใช้ดินล่ำปางแทน Kaolin และดินเขาเขียวแทน
plastic clay
- E = Standard body ที่ใช้ดินคอกยสุเทพแทน Kaolin และดินบ้านนาแทน
plastic clay

- S5K = Standard body added 5% Kaolin
- S10K = Standard body added 10% Kaolin
- S15K = Standard body added 15% Kaolin

- S5BA = Standard body added 5% Ball clay
- S10BA = Standard body added 10% Ball clay
- S15BA = Standard body added 15% Ball clay

- S5FL = Standard body added 5% Flint
- S10FL = Standard body added 10% Flint
- S15FL = Standard body added 15% Flint

S5FP = Standard body added 5% Feldspar
S10FP = Standard body added 10% Feldspar
S15FP = Standard body added 15% Feldspar

S5MG = Standard body added 5% MgCO_3
S10MG = Standard body added 10% MgCO_3
S15MG = Standard body added 15% MgCO_3

W_d = dry weight of test specimen

W_f = Fired weight of test specimen

W_{sus} = Suspended weight in water

W_s = Fire saturated weight with water

V_f = Fired volume

L_p = Plastic length

L_d = Dry length

L_f = Fired length

S_d = Percent of drying shrinkage

S_f = Percent of Fired Shrinkage

Sp.Gr. = Bulk specific gravity

P = Percent porosity

A = Percent water Absorption

S_c = Compressive Stress

S_t = Tensile Stress

S_b = Bending Stress

- C_o = Capacitance of perfect capacitor
- C_x = Capacitance of imperfect capacitor
- ϵ_r = Relative dielectric constant
- T_g^d = Dissipation factor
- U_d = Breakdown voltage
- E_d = Dielectric Strength
- β = Conversion factor
- \hat{U} = Max. breakdown voltage (peak value)

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE No. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr	%P	%A	REMARKS
S 5K													
C ₁	23.25	22.10	11.90	22.10	2.60	2.57	2.45	1.18	4.66	2.16	0.00	0.00	
C ₂	23.20	21.30	11.40	21.30	2.60	2.58	2.44	0.77	5.43	2.16	0.00	0.00	
B ₁	98.50	90.70	48.90	90.85	7.80	7.59	6.67	2.78	12.13	2.32	0.36	0.16	
B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
b ₁	29.05	27.70	15.00	27.90	16.60	16.00	14.50	3.13	9.37	2.18	1.57	0.72	
b ₂	31.70	30.30	16.00	30.50	16.80	16.20	14.70	3.70	9.25	2.09	1.38	0.66	
								2.31	8.17	2.18	0.66	0.31	
D ₁	23.20	22.20	12.40	22.50	8.10	8.05	7.12	0.62	11.55	2.26	3.06	1.35	
D ₂	47.00	44.50	25.50	44.90	8.10	8.10	7.23	0.00	10.74	2.34	2.44	1.21	
D ₃	62.70	59.40	34.10	59.85	8.10	8.00	6.89	1.25	14.79	2.32	1.80	0.76	
D ₄	89.20	84.30	48.20	84.80	8.10	8.10	7.09	0.00	12.46	2.34	1.43	0.60	
								0.47	12.38	2.32	2.13	0.98	
S 10K													
C ₁	24.00	22.20	12.10	22.20	2.60	2.58	2.46	0.77	4.66	2.20	0.00	0.00	
C ₂	24.40	22.70	12.20	22.70	2.60	2.59	2.45	0.38	5.40	2.16	0.00	0.00	
B ₁	93.73	86.10	46.20	86.40	7.80	7.42	6.59	5.22	11.20	2.14	0.75	0.35	
B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
b ₁	30.20	28.90	16.30	29.20	16.00	15.70	14.30	1.91	8.94	2.29	2.38	1.40	
b ₂	28.80	27.60	15.60	27.90	16.00	15.75	14.29	1.59	9.30	2.30	2.50	1.85	
								1.97	7.90	2.22	2.46	0.72	



TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE No. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr	%P	%A	REMARKS
S 10K													
D ₁	23.10	22.20	12.50	23.05	8.10	8.05	7.33	0.62	8.85	2.29	8.75	3.70	under fired
D ₂	48.50	46.10	26.30	49.10	8.10	8.10	7.28	0.00	10.10	2.33	15.15	6.50	under fired
D ₃	70.40	66.50	37.80	67.20	8.10	8.10	7.14	0.00	11.85	2.32	2.44	1.50	
D ₄	75.70	71.60	40.50	72.60	8.10	8.10	7.39	0.00	8.76	2.30	3.21	1.40	
								0.16	9.89	2.31	7.36	3.27	average
S 15K													
C ₁	22.60	21.50	11.60	21.60	2.60	2.55	2.40	1.92	7.50	2.18	1.01	0.47	
C ₂	23.00	22.00	11.80	22.10	2.60	2.56	2.43	1.56	5.90	2.16	0.98	0.46	
B ₁	95.80	88.00	48.00	88.20	7.80	7.42	6.52	5.14	8.35	2.20	0.48	0.23	
B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
b ₁	29.80	28.50	15.80	28.50	16.50	15.80	14.55	4.43	7.91	2.24	0.00	0.00	
b ₂	28.90	27.40	15.50	27.80	16.50	15.60	14.50	5.78	7.05	2.30	0.84	0.36	
								3.76	7.34	2.22	0.66	0.30	average
D ₁	23.90	22.70	13.10	23.05	8.10	8.00	7.35	1.25	8.11	2.37	3.64	1.46	
D ₂	51.10	48.60	26.70	49.10	8.10	8.00	7.35	1.25	8.11	2.22	2.28	1.03	
D ₃	62.80	59.50	32.00	60.20	8.10	8.08	6.97	0.25	13.75	2.17	2.54	1.18	
D ₄	75.70	72.00	38.40	72.60	8.10	8.10	7.55	0.00	5.56	2.14	1.79	0.84	
								0.69	8.88	2.22	2.56	1.12	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 5BA													
C ₁	20.10	18.00	9.40	18.00	2.60	2.57	2.38	1.23	7.40	2.10	0.00	0.00	
C ₂	21.70	20.00	10.60	20.00	2.60	2.57	2.41	1.23	6.22	2.13	0.00	0.00	
B ₁	96.90	89.20	45.30	89.40	7.80	7.60	7.15	2.14	5.93	2.35	0.45	0.22	
B ₂	-	-	-	-	-	N 0	N E	-	-	-	-	-	
b ₁	29.70	27.00	15.00	27.20	16.50	16.20	14.40	1.85	11.10	2.25	1.66	0.74	
b ₂	29.70	28.00	15.60	28.10	16.50	16.15	14.40	2.17	10.85	2.26	0.80	0.36	
								1.72	8.30	2.22	0.58	0.26	average
D ₁	24.50	23.50	13.40	23.80	8.10	8.00	7.29	1.25	8.88	2.32	2.72	1.28	
D ₂	51.20	48.50	27.30	49.05	8.10	8.05	7.34	0.62	8.83	2.29	2.60	1.13	
D ₃	68.75	65.00	36.00	65.40	8.10	8.05	7.17	0.62	12.25	2.24	1.38	0.61	
D ₄	77.10	73.00	40.50	73.60	8.10	8.08	7.58	0.00	6.19	2.25	1.84	0.82	
								0.62	9.04	2.25	2.13	0.97	average
S 10BA													
C ₁	20.50	18.90	8.30	20.30	2.60	2.58	2.44	0.77	5.43	1.78	11.60	0.74	Under fired
C ₂	20.10	19.30	8.10	19.80	2.60	2.59	2.45	0.38	5.40	1.73	4.50	0.26	
B ₁	94.60	86.90	45.30	87.00	7.80	7.30	6.59	6.85	9.75	2.07	0.24	0.10	
B ₂	-	-	-	-	-	N 0	N E	-	-	-	-	-	
b ₁	29.90	27.90	15.30	28.00	16.50	16.00	14.50	3.12	9.37	2.21	0.70	0.35	
b ₂	29.70	27.90	15.20	28.10	16.50	16.00	14.40	3.12	10.00	2.20	1.58	0.72	
								2.85	7.99	1.99	3.74	4.34	average
D ₁	23.70	22.50	12.40	22.80	8.10	8.03	7.40	0.87	7.89	2.23	2.72	1.33	
D ₂	49.20	46.50	25.80	46.90	8.10	8.00	7.31	1.25	8.62	2.26	1.48	0.86	
D ₃	72.05	68.30	37.10	68.60	8.10	8.03	7.26	0.87	9.59	2.30	0.97	0.44	
D ₄	90.50	85.60	46.50	86.20	8.10	8.05	7.52	0.62	6.59	2.29	1.53	0.70	
								0.90	8.17	2.27	1.67	0.88	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARK
S 15BA													
C ₁	21.85	19.70	7.4	20.00	2.60	2.59	2.45	0.38	5.40	1.61	2.38	1.34	
C ₂	22.80	21.10	7.50	23.30	2.60	2.58	2.45	0.77	5.05	1.60	13.90	1.41	Under fired
B ₁	98.40	90.70	41.80	91.50	7.80	7.30	6.52	6.85	10.70	1.98	1.61	0.83	
B ₂	-	-	-	-	-	N	N	-	-	-	-	-	
b ₁	30.50	27.00	13.20	27.20	16.50	16.00	14.50	3.12	9.37	1.96	1.45	0.75	Under fired
b ₂	30.60	28.10	14.40	28.40	16.50	15.90	14.50	3.09	8.80	2.05	2.19	1.07	
								2.84	7.76	1.84	4.30	1.08	average
D ₁	25.90	24.50	12.30	25.20	8.10	8.00	7.54	1.25	5.75	2.01	5.75	2.86	
D ₂	47.45	45.00	22.00	45.75	8.10	8.00	7.47	1.25	6.63	1.96	3.26	1.67	
D ₃	64.56	60.60	31.00	61.50	8.10	8.00	7.16	1.25	10.50	2.05	3.04	1.48	
D ₄	76.90	72.20	36.80	73.00	8.10	8.03	7.25	0.87	9.72	2.04	2.26	1.11	
								1.15	8.15	2.02	3.08	1.78	average
S 5FL													
C ₁	23.90	22.00	11.80	22.00	2.60	2.57	2.44	1.18	5.06	2.18	0.00	0.00	
C ₂	23.70	21.90	11.70	21.90	2.60	2.58	2.44	0.77	5.43	2.14	0.00	0.00	
B ₁	17.20	109.50	60.00	109.55	7.80	7.63	6.84	2.23	10.35	2.15	0.10	0.05	
B ₂	-	-	-	-	-	N	N	E	-	-	-	-	
b ₁	28.80	27.20	15.30	27.50	16.50	15.90	14.10	3.78	11.32	2.28	2.52	1.10	
b ₂	29.00	28.00	15.60	28.10	16.50	15.85	14.20	4.15	10.40	2.26	0.81	0.36	
								2.44	6.51	2.20	0.87	0.30	average
D ₁	24.10	23.20	12.90	23.32	8.10	8.05	7.23	0.62	10.89	2.25	1.16	0.50	
D ₂	44.10	42.10	23.10	42.40	8.10	8.00	7.14	1.25	10.75	2.22	1.58	0.71	
D ₃	69.20	66.30	35.70	66.68	8.10	8.10	7.16	0.00	10.38	2.17	1.04	0.57	
D ₄	60.20	57.90	30.50	58.22	8.10	8.10	7.39	0.00	8.76	2.11	1.17	0.55	
								1.39	10.02	2.16	1.24	0.58	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 9 (1,280°C)

BCDY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr	%P	%A	REMARKS
S 10FL													
C ₁	21.80	20.00	10.40	20.00	2.60	2.55	2.35	1.96	7.85	2.09	0.00	0.00	
C ₂	21.65	19.50	10.30	19.60	2.60	2.56	2.33	1.56	9.00	2.12	1.09	0.51	
B ₁	98.60	90.90	49.00	91.10	7.80	7.41	6.74	5.12	7.70	2.16	0.47	0.22	
B ₂	-	-	-	-	-	N O	N B	-	-	-	-	-	
b ₁	28.58	28.00	15.50	28.30	16.50	15.75	14.50	4.76	7.94	2.24	2.40	1.07	
b ₂	28.80	28.20	16.10	28.70	16.50	15.70	14.35	4.70	8.61	2.33	4.15	1.77	
								3.62	8.22	2.19	1.62	0.71	average
D ₁	26.20	25.00	14.40	25.20	8.10	8.05	7.25	0.62	9.95	2.36	1.89	0.80	
D ₂	48.40	43.80	23.70	44.20	8.10	8.00	7.13	1.25	10.75	2.18	1.90	0.91	
D ₃	64.00	65.80	36.30	66.31	8.10	8.00	7.11	1.25	11.11	2.31	1.73	0.77	
D ₄	75.80	63.70	35.00	64.05	8.10	8.05	7.20	0.62	10.55	2.22	1.22	0.55	
								0.93	10.59	2.27	1.68	0.76	average
S 15FL													
C ₁	24.35	21.20	11.50	21.20	2.60	2.58	2.48	0.77	3.88	2.19	0.00	1.00	
C ₂	24.30	22.30	12.20	22.30	2.60	2.59	2.43	0.38	6.20	2.20	0.00	0.00	
B ₁	99.90	92.20	49.20	93.20	7.80	7.51	7.08	3.86	5.73	2.14	2.50	1.08	
B ₂	-	-	-	-	-	N O	N B	-	-	-	-	-	
b ₁	29.60	27.80	15.80	28.10	16.50	15.80	14.35	4.42	9.17	2.32	2.50	1.08	
b ₂	29.50	27.70	15.70	28.00	16.50	15.80	14.36	4.42	9.13	2.31	2.50	1.08	
								2.77	6.82	2.23	1.50	0.85	average
D ₁	26.20	25.20	14.60	25.22	8.10	8.03	7.24	0.87	9.84	2.38	0.19	0.08	
D ₂	48.40	46.60	25.70	46.67	8.10	8.03	7.30	0.87	8.95	2.23	0.33	0.15	
D ₃	64.00	61.20	33.80	61.48	8.10	8.05	7.05	0.62	12.40	2.24	0.98	0.47	
D ₄	75.80	72.20	40.00	72.40	8.10	8.00	7.38	1.25	7.75	2.24	0.62	0.28	
								0.90	9.73	2.27	0.53	0.24	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 5FP													
C ₁	22.60	20.60	10.70	20.80	2.60	2.56	2.41	1.23	6.22	2.08	2.02	0.95	
C ₂	22.20	20.50	10.70	20.60	2.60	2.58	2.40	0.77	6.97	2.10	1.02	0.49	
B ₁	97.88	90.20	49.00	90.40	7.80	7.55	7.09	3.31	6.10	2.23	0.83	0.22	
B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
b ₁	27.70	26.20	14.50	26.50	16.00	15.70	14.10	1.91	10.20	2.24	2.50	1.14	
b ₂	29.00	28.20	16.00	28.50	16.00	15.75	14.30	1.59	9.22	2.40	2.40	1.65	
								1.76	7.74	2.21	1.75	0.89	average
D ₁	22.30	21.40	12.50	21.45	8.10	8.00	7.18	1.25	10.25	2.31	0.56	0.23	
D ₂	46.70	44.60	24.80	44.85	8.10	8.00	7.18	1.25	10.25	2.33	1.26	0.56	
D ₃	67.70	64.10	35.60	64.20	8.10	8.05	7.14	0.62	11.30	2.25	0.36	0.15	
D ₄	88.20	83.60	47.60	84.10	8.10	8.10	7.33	0.00	9.52	2.32	1.39	0.59	
								0.78	10.33	2.30	0.89	0.38	average
S 10FP													
C ₁	24.65	22.50	12.20	22.50	2.60	2.58	2.48	0.77	3.88	2.18	0.00	0.00	
C ₂	24.80	22.90	12.40	22.90	2.60	2.59	2.48	0.38	4.25	2.18	0.00	0.00	
B ₁	89.83	82.20	44.40	82.20	7.80	7.42	6.78	5.14	8.92	2.17	0.00	0.00	
B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
b ₁	29.20	27.70	15.70	27.80	16.00	15.80	14.30	1.27	9.52	2.31	0.63	0.37	
b ₂	27.50	27.70	15.50	27.90	16.00	15.80	14.00	1.27	11.40	2.27	1.66	0.72	
								1.76	7.53	2.22	0.46	0.22	average
D ₁	22.80	21.40	12.20	21.42	8.10	8.00	7.18	1.25	10.25	2.33	0.22	0.09	
D ₂	47.80	45.85	25.20	45.90	8.10	8.00	0.24	1.25	9.50	2.22	0.24	0.11	
D ₃	69.20	66.00	36.30	66.05	8.10	8.00	7.15	1.25	10.62	2.23	0.17	0.08	
D ₄	68.80	65.60	36.00	65.75	8.10	8.08	7.24	0.25	10.96	2.22	0.50	0.22	
								1.00	10.33	2.22	0.28	0.12	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%h	%A	REMARKS
S 15FF													
C ₁	22.31	20.21	10.60	20.25	3.60	2.55	2.31	1.92	9.41	2.10	0.41	0.19	
C ₂	22.50	20.60	10.90	20.70	2.60	2.57	2.39	1.23	7.00	2.12	1.03	0.28	
B ₁	94.40	86.60	45.60	86.60	7.80	7.40	6.75	5.40	8.80	2.11	0.00	0.00	
B ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
b ₁	29.20	27.70	15.60	27.70	16.00	15.80	14.00	1.27	11.40	2.29	0.00	0.00	
b ₂	30.60	29.00	16.50	29.10	16.00	15.80	14.30	1.27	9.50	2.32	7.94	3.55	Under fired
								2.22	9.22	2.19	1.87	0.82	average
D ₁	24.80	23.90	13.30	23.90	8.10	8.05	7.20	0.62	10.55	2.32	0.00	0.00	
D ₂	48.00	46.10	25.60	46.12	8.10	8.00	7.25	1.25	9.39	2.25	0.08	0.04	
D ₃	68.70	65.90	36.00	66.18	8.10	8.00	7.10	1.25	11.25	2.20	0.93	0.43	
D ₄	72.50	69.30	28.30	69.38	8.10	8.10	7.30	0.00	9.89	1.69	0.19	0.11	
								0.78	10.27	2.12	0.30	0.14	average
S 5MC C ₁	20.30	18.60	9.70	18.60	2.60	2.55	2.26	1.96	10.13	2.09	0.00	0.00	
C ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
B ₁	88.96	81.16	43.50	81.80	7.80	7.53	7.08	3.60	5.99	2.15	1.70	0.78	
B ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
b ₁	27.50	26.00	14.50	26.80	16.00	15.75	14.20	1.59	9.79	2.16	6.95	3.08	Under fired
b ₂	26.80	25.20	14.10	25.40	16.00	EXCESSION	DEFORMATION			2.27	1.77	0.79	
								2.38	8.63	2.17	2.60	1.16	average
D ₁	24.60	23.10	12.20	23.20	8.10	8.10	7.15	0.00	4.71	2.12	0.91	0.43	
D ₂	43.10	40.00	22.20	40.10	8.10	8.10	7.00	0.00	13.59	2.25	0.56	0.25	
D ₃	62.00	57.70	31.30	58.10	8.10	8.08	7.26	0.25	10.15	2.19	1.57	0.69	
D ₄	-	-	-	-	-	N O	N E	-	-	-	-	-	
								0.08	11.82	2.19	1.01	0.46	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 10MC													
C ₁	20.40	18.70	9.80	18.70	2.60	2.55	2.40	1.92	12.10	2.09	0.00	0.00	
C ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
B ₁	82.33	74.70	40.00	74.90	7.80	7.42	6.50	5.14	12.60	2.16	0.57	0.47	
B ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
b ₁	27.80	26.00	14.40	26.80	16.00	15.75	14.20	1.59	9.79	2.24	6.45	3.08	Under fired
b ₂	25.90	24.30	13.60	24.50	16.00	15.70	13.70	1.91	12.75	2.27	1.04	0.82	
								2.64	11.81	2.19	2.01	1.09	average
D ₁	26.40	24.55	13.00	24.65	8.10	8.00	7.23	1.25	9.73	2.12	0.86	0.41	
D ₂	46.90	41.50	22.80	-	8.10	8.00	9.95	1.25	12.50	2.22	-	-	
D ₃	68.70	60.70	33.80	61.50	8.10	8.05	7.10	0.62	10.54	2.29	2.98	1.32	
D ₄	-	-	-	-	-	N O	N E	-	-	-	-	-	
								1.04	10.92	2.20	1.92	0.36	average
S 15MC													
C ₁	20.50	18.70	9.70	18.70	2.60	2.55	2.30	1.92	9.80	2.08	0.00	0.00	
C ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
B ₁	81.20	74.00	39.40	74.00	7.80	7.53	7.15	3.60	5.05	2.14	0.00	0.00	
B ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
b ₁	27.90	26.20	14.80	26.60	18.00	15.70	14.20	1.91	9.55	2.30	3.39	1.53	
b ₂	24.80	23.20	13.30	34.50	16.00	15.80	13.60	1.27	13.90	1.71	2.94	1.29	
								2.17	9.57	2.06	1.58	0.70	average
D ₁	17.70	16.20	8.15	16.52	8.10	8.08	6.72	0.25	16.82	2.01	3.48	1.97	
D ₂	39.70	36.20	19.80	36.55	8.10	8.10	6.80	0.00	16.10	2.21	2.14	0.97	
D ₃	52.90	47.75	26.50	48.20	8.10	8.10	7.00	0.00	13.59	2.24	2.12	0.94	
D ₄	-	-	-	-	-	N O	N E	-	-	-	-	-	
								0.08	15.50	2.15	2.75	1.29	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%F	%A	REMARKS		
S	C ₁	20.60	18.60	10.00	18.65	2.60	2.51	2.30	3.58	8.01	2.16	0.58	0.31	Under fired	
	C ₂	20.65	18.70	9.90	18.73	2.60	2.50	2.30	4.01	8.00	2.12	0.34	0.16		
	B ₁	33.35	25.65	14.40	25.70	7.80	7.62	7.34	2.36	3.67	2.28	0.44	0.19		
	B ₂	32.08	24.45	13.80	25.53	7.80	7.60	7.32	2.63	3.68	2.30	9.20	4.41		
	b ₁	33.50	32.90	16.70	33.10	16.50	16.10	14.70	2.48	9.52	2.03	0.61	1.22		
	b ₂	37.50	36.20	17.50	36.50	16.50	16.20	14.80	1.85	9.45	1.91	1.58	0.83		
									2.84	7.06	2.14	2.13	1.18		average
	D ₁	21.95	21.30	12.10	21.30	8.10	8.05	7.05	0.62	12.41	2.29	0.00	0.00		
	D ₂	40.80	39.20	21.80	39.30	8.10	8.10	6.95	0.00	14.20	2.25	0.58	0.26		
	D ₃	92.10	59.50	33.30	59.70	8.10	8.10	6.95	0.00	14.20	2.27	0.76	0.34		
D ₄	64.70	61.90	34.90	62.10	8.10	8.10	7.09	0.00	12.35	2.29	0.74	0.32			
								0.15	13.29	2.27	0.52	0.23	average		
A	C ₁	21.40	19.70	10.70	19.70	2.60	2.58	2.20	0.34	14.70	2.16	0.00	0.00	Under fired	
	C ₂	24.00	22.20	11.90	22.30	2.60	2.58	2.15	0.34	16.65	2.19	0.00	0.00		
	B ₁	-	-	-	-	-	-	-	-	-	-	-	-		
	B ₂	-	-	-	-	-	N O N E	-	-	-	-	-	-		
	b ₁	36.40	34.90	16.70	35.20	16.50	16.40	15.10	0.61	7.92	1.92	1.63	0.86		
	b ₂	35.50	33.80	13.20	35.70	16.50	16.45	15.40	0.32	6.08	1.64	8.89	5.61		
									0.40	11.31	2.09	2.64	1.62		average
	D ₁	24.30	23.20	12.80	23.30	8.10	8.05	7.08	0.62	11.40	2.27	0.98	0.43		
	D ₂	54.60	51.80	29.10	52.00	8.10	8.00	7.25	1.25	9.37	1.23	0.49	0.38		
	D ₃	63.20	59.80	33.70	60.10	8.10	8.05	6.85	0.62	14.91	2.29	1.15	0.50		
D ₄	72.50	68.60	37.80	69.15	8.10	8.10	7.26	0.00	10.38	2.22	1.77	0.79			
								1.24	11.51	2.00	1.17	0.63	average		

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS		
B	C ₁	20.00	18.20	10.00	18.30	2.60	2.42	2.05	7.44	15.30	2.23	1.21	0.55		
	C ₂	20.10	18.20	9.85	18.28	2.60	2.41	2.10	7.79	12.88	2.20	0.95	0.44		
	B ₁	84.83	77.20	52.20	77.25	7.80	7.10	6.28	9.86	11.52	2.20	0.14	0.06		
	B ₂	78.40	70.70	39.00	70.85	7.80	7.00	5.95	11.42	15.00	2.23	0.47	0.21		
	b ₁	30.00	28.40	12.90	31.90	16.00	15.90	14.50	0.63	9.40	1.84	18.40	12.31	Under fired	
	b ₂	32.50	30.80	14.00	34.30	16.00	15.80	14.80	1.27	6.34	1.84	17.25	11.38	" "	
									6.40	12.40	2.09	6.40	4.15	average	
	D ₁	25.00	23.75	12.80	23.90	8.10	8.00	7.25	1.25	9.37	2.16	1.37	0.64		
	D ₂	53.70	45.10	23.90	50.80	8.10	8.05	7.18	0.62	10.80	2.30	25.61	12.61	Under fired	
	D ₃	73.60	66.90	38.20	67.60	8.10	8.00	7.12	1.25	11.00	2.32	2.44	1.05		
	D ₄	73.75	67.00	37.50	67.80	8.10	8.05	7.10	0.62	10.52	2.27	2.70	1.19		
									0.94	10.04	2.37	8.05	3.86	average	
	C	C ₁	20.90	19.10	9.80	19.15	2.60	2.50	2.20	4.00	12.00	2.05	0.54	0.26	
		C ₂	21.92	20.02	10.00	20.10	2.60	2.51	2.20	3.58	11.99	2.01	0.79	0.39	
E ₁		87.25	79.55	38.20	79.60	7.80	7.28	6.50	7.14	10.70	1.98	0.36	0.19		
E ₂		92.73	85.10	42.50	85.15	7.80	7.29	6.53	7.01	10.30	2.00	0.15	0.06		
b ₁		37.30	35.70	12.10	35.80	16.00	16.00	15.30	0.00	4.66	1.51	0.42	0.28		
b ₂		36.20	34.70	13.00	34.90	16.00	15.80	15.50	0.63	2.52	1.60	0.91	0.58		
									3.72	8.70	1.86	0.53	2.93	average	
D ₁		24.53	23.20	10.90	23.55	8.10	8.05	7.20	0.62	10.55	1.89	2.84	1.51		
D ₂		55.30	50.30	25.80	50.78	8.10	8.05	7.20	0.62	10.55	2.06	1.93	0.96		
D ₃		76.10	71.23	40.10	72.00	8.10	8.00	7.20	1.25	10.00	2.29	2.48	1.06		
D ₄		67.10	57.40	29.00	57.40	8.10	8.05	7.22	0.62	10.30	2.02	0.00	0.00		
								0.79	10.35	2.07	1.81	0.88	average		

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 9 (1,280°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
D C ₁	20.40	18.70	9.95	18.71	-	-	-	-	-	2.14	0.11	0.05	
C ₂	20.80	18.80	10.00	18.80	-	-	"	-	-	2.14	0.00	0.00	
B ₁	95.50	87.70	46.30	87.70	7.80	7.60	7.32	2.63	3.68	2.12	0.00	0.00	
E ₂	86.48	78.85	39.50	78.85	7.80	7.60	7.10	2.63	6.57	2.01	0.00	0.00	
b ₁	34.30	32.30	15.70	32.60	16.00	15.80	14.90	1.27	5.70	1.95	1.76	0.93	
b ₂	32.90	31.10	16.00	31.60	16.00	15.65	14.60	2.23	6.71	2.06	3.21	1.61	
								2.19	5.66	2.07	0.85	0.43	average
D ₁	28.90	27.90	14.00	27.90	8.10	8.00	7.40	1.25	7.50	1.98	0.00	0.00	
D ₂	51.80	50.40	25.90	50.40	8.10	8.10	7.35	0.00	9.25	1.96	0.00	0.00	
D ₃	68.80	55.70	22.50	55.75	8.10	8.10	7.80	0.00	3.70	1.68	0.24	0.09	
D ₄	61.30	71.40	40.50	72.00	8.10	8.10	7.50	0.00	7.40	3.42	2.86	0.84	
								0.31	6.95	2.26	0.78	0.23	average
E C ₁	18.90	16.70	7.70	16.80	2.60	2.50	2.40	4.00	4.00	1.86	1.10	0.60	
C ₂	20.80	18.80	8.80	18.90	2.60	2.51	2.40	3.68	4.38	1.88	0.99	0.53	
B ₁	96.00	88.30	46.30	88.90	7.80	7.60	7.20	2.63	5.27	2.10	1.41	0.68	
E ₂	-	-	-	-	-	EXCESSIVE DEFORMATION			-	-	-	-	
b ₁	35.30	33.50	15.50	32.60	16.10	15.80	15.40	1.90	2.53	1.86	0.55	0.30	
b ₂	36.30	34.30	17.60	34.60	16.20	15.80	15.30	2.53	3.16	2.05	1.77	0.88	
								2.94	3.87	1.95	1.16	0.72	average
D ₁	24.10	-	-	-	-	-	-	-	-	-	-	-	
D ₂	50.00	45.70	26.60	46.25	8.10	8.10	7.15	0.00	10.50	2.39	2.88	1.21	
D ₃	67.70	61.75	35.00	62.20	8.10	8.00	6.95	1.25	13.12	2.31	2.60	0.89	
D ₄	68.05	61.90	35.60	62.80	8.10	8.10	7.20	0.00	11.10	2.35	3.42	1.96	
								0.42	11.57	2.35	2.97	1.35	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr	%P	%A	REMARKS
S 5K													
C ₁	28.85	21.70	12.20	21.80	2.60	2.58	2.20	0.78	19.70	2.28	1.05	0.46	
C ₂	23.30	21.10	11.90	21.50	2.60	2.59	2.30	0.38	11.20	2.22	4.35	1.89	
B ₁	99.30	91.60	49.00	92.70	7.80	7.40	6.50	5.13	12.15	2.15	2.58	1.20	
B ₂	95.90	88.10	49.30	89.60	7.80	7.36	6.46	5.65	12.20	2.27	3.83	1.72	
b ₁	31.30	29.80	16.70	29.80	16.00	15.70	14.40	2.93	8.29	2.27	0.00	0.00	
b ₂	30.70	28.90	16.20	29.30	16.00	15.75	14.40	1.58	8.57	2.28	3.14	1.38	
								2.57	12.02	2.24	2.49	1.11	average
D ₁	21.60	20.40	12.00	20.40	8.10	8.05	7.25	0.62	8.70	7.33	0.00	0.00	
D ₂	46.30	43.70	25.60	43.80	8.10	8.10	7.10	0.00	12.35	2.42	0.56	0.23	
D ₃	66.70	64.80	31.60	67.50	8.10	8.10	7.17	0.00	11.59	1.95	8.15	5.71	Under fired
D ₄	70.85	66.70	38.50	66.80	8.10	8.10	7.28	0.00	10.11	2.37	0.35	0.15	
								0.16	10.66	2.24	2.26	1.52	average
S 10K													
C ₁	23.10	21.20	11.90	21.70	2.60	2.59	2.25	0.38	13.10	2.28	5.38	2.36	Under fired
C ₂	23.50	21.50	12.10	21.80	2.60	2.58	2.30	0.78	10.85	2.29	3.19	1.40	
B ₁	93.20	85.50	47.40	87.05	7.80	7.39	6.50	5.28	12.10	2.22	4.07	1.75	
B ₂	91.80	84.00	45.80	85.20	7.80	7.38	6.50	5.40	11.90	2.20	3.14	1.43	
b ₁	31.10	29.50	15.70	29.80	16.00	15.80	14.50	1.26	8.25	2.14	2.18	1.02	
b ₂	22.20	20.20	10.80	20.20	16.00	15.82	14.45	1.12	8.67	2.34	0.00	0.00	
								2.37	10.81	2.24	2.99	1.33	average
D ₁	22.90	21.70	12.18	21.80	8.10	8.05	7.25	0.62	9.95	2.28	1.16	0.46	
D ₂	47.85	45.10	14.70	45.10	8.10	8.00	7.10	1.25	11.25	1.48	0.00	0.00	
D ₃	69.00	61.90	37.00	68.10	8.10	8.08	7.17	0.25	11.28	2.59	4.19	1.64	
D ₄	88.70	83.40	45.70	90.50	8.10	8.10	7.28	0.00	10.12	2.21	18.82	8.83	Under fired
								0.53	10.65	2.14	6.04	3.54	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES
 CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr	%P	%A	REMARKS
S 15K													
C ₁	23.80	21.90	12.30	22.25	2.60	2.59	2.34	0.38	9.65	2.29	2.64	1.60	
C ₂	25.20	23.40	13.20	23.80	2.60	2.59	2.35	0.38	9.27	2.28	3.92	1.71	
B ₁	95.90	88.30	49.30	89.40	7.80	7.30	6.60	6.85	9.60	2.26	2.90	1.25	
B ₂	98.40	90.07	50.40	92.10	7.80	7.40	6.60	5.13	10.72	2.28	3.48	1.55	
b ₁	30.20	28.50	15.90	28.60	16.00	15.65	14.40	2.18	8.00	2.26	0.79	0.35	
b ₂	28.90	26.90	15.00	27.30	16.00	15.60	14.30	2.50	8.15	2.26	3.36	1.49	
								2.90	9.23	2.27	3.02	1.32	average
D ₁	24.00	22.50	12.50	22.50	8.10	8.10	7.28	0.00	10.11	2.25	0.00	0.00	
D ₂	47.80	45.10	26.30	45.10	8.10	8.10	7.20	0.00	9.87	2.30	0.00	0.00	
D ₃	63.70	59.50	33.40	59.80	8.10	8.10	6.85	0.00	15.41	2.28	1.15	0.51	
D ₄	74.73	70.20	38.50	76.30	8.10	8.10	7.65	0.00	5.56	2.22	19.22	8.69	Under fired
								0.00	13.65	2.26	5.09	2.30	average
S 5BA													
C ₁	22.10	20.20	11.30	20.55	2.60	2.47	2.25	5.25	8.90	2.27	3.93	1.74	
C ₂	22.15	20.00	11.10	20.30	2.60	2.47	2.23	5.25	9.73	2.22	3.33	1.50	
B ₁	97.50	89.80	48.40	90.90	7.80	7.28	6.59	7.15	9.47	2.17	2.99	1.23	
B ₂	93.90	86.10	46.60	87.40	7.80	7.22	6.50	8.05	9.90	2.18	3.80	1.74	
b ₁	29.90	28.30	15.60	28.40	16.00	15.80	14.30	1.26	9.50	2.20	0.79	0.35	
b ₂	29.50	27.70	15.30	28.26	16.00	15.85	14.20	0.95	10.41	2.23	4.03	1.81	
								4.65	9.65	2.21	3.09	1.56	average
D ₁	24.00	22.50	12.00	22.50	8.10	8.08	7.25	0.25	10.28	2.14	0.00	0.00	
D ₂	49.55	46.60	27.40	46.60	8.10	8.06	7.26	0.49	9.90	2.42	0.00	0.00	
D ₃	72.90	68.90	38.00	75.30	8.10	8.05	7.50	0.62	6.84	2.22	27.10	9.31	Under fired
D ₄	72.60	68.60	37.50	73.60	8.10	8.05	7.50	0.62	6.84	2.22	16.75	11.57	" "
								0.49	6.46	2.25	10.96	5.22	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 10BA													
C ₁	21.40	19.40	10.50	19.80	2.60	2.48	2.25	4.85	9.66	2.18	4.50	2.03	
C ₂	21.75	19.60	10.60	19.80	2.60	2.49	2.23	4.42	10.46	2.18	2.22	1.02	
B ₁	102.40	94.70	53.80	95.85	7.80	7.30	6.59	6.85	9.68	2.27	3.60	1.67	
B ₂	96.60	88.80	49.80	90.15	7.80	7.30	6.50	6.85	10.80	2.28	3.46	1.52	
b ₁	24.10	22.50	12.70	27.70	16.00	15.60	14.20	2.57	8.95	2.29	34.60	23.10	Under fired
b ₂	31.00	29.20	16.30	30.20	16.00	15.60	14.80	2.57	5.12	2.26	0.78	0.34	
								4.68	9.11	2.24	3.00	4.78	average
D ₁	23.00	21.70	12.70	21.80	8.10	8.00	7.30	1.25	8.75	2.17	1.00	0.46	
D ₂	50.75	47.70	27.00	47.80	8.10	8.08	7.29	0.62	9.44	2.32	0.47	0.21	
D ₃	69.30	65.00	36.40	68.70	8.10	8.08	7.28	0.25	9.90	2.27	12.91	5.70	Under fired
D ₄	90.60	84.90	47.80	88.50	8.10	8.09	7.52	0.13	7.05	2.36	8.85	4.25	" "
								0.56	8.78	2.28	2.88	2.65	average
S 15BA													
C ₁	20.55	19.40	10.50	19.60	2.60	2.48	2.20	4.84	11.40	2.18	2.25	1.03	
C ₂	21.00	19.80	10.70	20.00	2.60	2.48	2.22	4.84	10.50	2.22	2.19	1.01	
B ₁	98.50	88.90	47.20	92.55	7.80	7.50	6.62	8.00	10.72	2.13	8.75	4.11	Under fired
B ₂	93.20	85.40	45.20	88.30	7.80	7.52	6.60	3.73	12.30	2.12	6.91	3.40	" "
b ₁	24.90	23.40	13.00	23.70	16.00	15.50	13.35	3.32	13.80	2.25	2.88	1.23	
b ₂	26.50	24.80	13.70	25.00	16.00	15.52	13.50	3.08	13.00	2.23	1.80	0.81	
								3.95	12.12	2.19	4.29	1.93	average
D ₁	26.15	24.20	13.10	24.30	8.10	8.00	7.35	1.25	8.85	2.18	0.92	0.41	
D ₂	45.00	42.30	12.20	42.60	8.10	8.00	7.10	1.25	11.21	1.41	0.99	0.71	
D ₃	63.20	59.20	32.70	66.10	8.10	7.95	7.27	1.89	8.55	2.23	29.82	13.70	Under fired
D ₄	75.60	70.90	39.00	74.00	8.10	8.10	7.50	0.00	7.40	2.22	15.35	6.92	" "
								1.09	9.08	2.01	15.69	8.48	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp. Gr.	%P	%A	REMARKS
S 5FL													
C ₁	22.25	20.10	11.20	20.45	2.60	2.58	2.21	0.78	14.35	2.26	3.81	1.74	
C ₂	22.50	20.60	11.40	20.60	2.60	2.57	2.25	1.17	12.45	2.24	0.00	0.00	
B ₁	86.45	78.75	44.60	79.25	7.80	7.35	6.15	6.13	16.30	2.31	1.46	0.63	
B ₂	95.90	78.10	43.20	78.70	7.80	7.30	6.28	6.86	14.20	2.24	1.72	0.77	
b ₁	30.10	28.50	15.70	28.80	16.00	15.82	14.30	1.14	9.60	2.23	2.34	1.05	
b ₂	29.40	27.70	15.50	27.70	16.00	15.80	14.20	1.26	10.12	2.27	0.00	0.00	
								2.89	17.25	2.6	1.56	0.70	average
D ₁	25.00	23.90	13.70	25.60	8.10	8.10	7.55	0.00	8.67	1.99	22.50	11.30	
D ₂	47.75	45.40	26.40	47.50	8.10	8.10	7.33	0.00	9.85	2.39	11.05	4.66	
D ₃	68.80	65.20	37.50	65.20	8.10	8.08	7.10	0.24	12.00	2.35	0.00	0.00	
D ₄	65.90	62.30	35.70	71.70	8.10	8.10	7.87	0.00	2.84	2.26	34.15	15.09	
								0.08	11.12	2.5	11.86	7.76	average
S 10FL													
C ₁	23.05	20.90	11.80	21.25	2.60	2.47	2.30	5.25	10.55	2.28	3.18	1.21	
C ₂	23.10	21.20	11.90	21.45	2.60	2.49	2.30	4.42	9.64	2.28	2.69	1.79	
B ₁	98.90	91.20	50.30	92.00	7.80	7.32	6.56	6.60	16.00	2.23	1.96	0.88	
B ₂	98.70	90.90	50.90	91.75	7.80	7.31	6.48	6.70	14.10	2.27	2.12	0.07	
b ₁	30.30	28.50	15.60	28.80	16.00	15.70	14.40	1.91	8.25	2.21	2.33	1.11	
b ₂	30.50	28.50	15.20	28.60	16.00	15.70	14.30	1.91	8.87	2.14	0.75	0.35	
								4.47	11.23	2.24	2.17	0.90	average
D ₁	26.20	25.00	14.40	27.60	8.10	8.10	7.65	0.00	5.88	2.35	16.50	10.40	
D ₂	46.40	44.10	25.00	44.10	8.10	8.08	7.38	0.25	8.66	2.38	0.00	0.00	
D ₃	66.40	63.10	36.20	63.80	8.10	8.05	7.00	0.62	13.02	2.45	2.62	1.11	
D ₄	69.50	66.00	36.20	68.60	8.10	8.08	7.35	0.25	9.04	2.22	8.73	3.94	
								2.79	9.15	2.33	6.96	3.86	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 15FL													
C ₁	22.60	20.50	11.40	20.80	2.60	2.50	2.30	4.00	8.00	2.26	3.29	1.46	
C ₂	21.80	20.00	11.10	20.20	2.60	2.47	2.20	8.27	10.08	2.25	2.48	1.00	
B ₁	104.30	96.70	52.90	97.00	7.80	7.28	6.78	4.28	7.37	2.20	6.85	0.31	
B ₂	100.90	93.10	52.20	94.60	7.80	7.35	6.58	6.12	7.00	2.28	3.67	0.16	
b ₁	29.90	28.30	15.70	28.40	16.00	15.80	14.30	1.26	9.50	2.25	0.79	0.35	
b ₂	29.70	27.70	15.30	28.00	16.00	15.80	14.30	1.26	10.75	2.23	2.42	1.17	
								3.69	8.78	2.24	3.25	0.74	average
D ₁	21.15	15.60	9.00	15.70	8.10	8.00	7.13	1.25	10.85	2.26	1.49	1.22	
D ₂	46.60	44.20	25.50	44.20	8.10	8.05	7.20	0.62	10.52	2.36	0.00	0.00	
D ₃	67.00	63.60	36.50	63.60	8.10	8.00	6.99	1.25	12.55	2.35	0.00	0.00	
D ₄	81.70	78.30	40.50	78.40	8.10	8.08	7.65	0.25	5.31	2.08	0.26	0.12	
								0.84	9.81	2.26	0.44	0.59	average
S 5FP													
C ₁	22.80	21.00	11.70	21.30	2.60	2.55	2.30	1.96	9.80	2.26	3.19	1.43	
C ₂	23.10	21.50	12.10	21.80	2.60	2.56	2.32	1.56	9.38	2.29	3.20	0.14	
B ₁	90.90	83.20	46.40	83.20	7.80	7.35		6.12		2.26	0.00	0.00	
B ₂	92.30	84.70	47.30	84.70	7.80	7.35		6.12		2.26	0.00	0.00	
b ₁	29.90	28.40	15.80	28.40	16.00	15.80	14.35	1.26	9.18	2.26	0.00	0.00	
b ₂	30.10	28.10	15.40	28.10	16.00	15.70	14.20	1.91	9.49	2.21	0.00	0.00	
								3.41	9.46	2.25	1.06	0.26	average
D ₁	21.75	20.70	12.00	21.10	8.10	8.05	7.20	0.62	10.55	2.38	4.61	1.93	
D ₂	50.50	47.90	27.10	52.70	8.10	8.00	7.66	1.26	4.24	2.40	23.10	10.20	
D ₃	67.00	63.40	32.70	76.80	8.10	8.05	7.88	0.62	2.11	2.07	32.00	21.15	
D ₄	87.95	83.00	46.70	97.90	8.10	8.10	7.96	0.00	2.73	2.29	41.10	17.96	
								0.68	4.66	2.26	25.20	12.81	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 10FP													
C ₁	22.75	20.60	11.60	20.69	2.60	2.58	2.27	0.78	13.65	2.29	1.00	4.37	
C ₂	22.90	20.80	11.55	20.87	2.60	2.59	2.25	0.38	15.12	2.24	0.76	0.44	
B ₁	96.80	89.00	50.10	89.60	7.80	7.20	6.45	8.35	10.39	2.29	1.54	0.68	
B ₂	97.85	90.05	49.90	90.09	7.80	7.35	6.55	6.12	10.88	2.25	0.99	0.44	
b ₁	-	-	-	-	-			-	-	-	-	-	
b ₁	-	-	-	-	-	N O N E		-	-	-	-	-	
								3.91	12.51	2.6	1.07	1.47	average
D ₁	22.30	21.20	12.00	21.20	8.10	8.05	7.15	0.62	11.19	2.31	0.00	0.00	
D ₂	46.40	44.10	25.00	44.60	8.10	8.05	7.21	0.62	10.42	2.31	2.62	1.13	
D ₃	65.60	61.90	35.00	61.90	8.10	8.00	6.91	1.25	13.61	2.30	0.00	0.00	
D ₄	71.80	67.90	38.00	68.00	8.10	8.10	7.22	0.00	10.85	2.27	0.33	0.15	
								0.62	13.03	2.29	0.74	0.32	average
S 15FP													
C ₁	21.90	20.00	11.10	20.02	2.60	2.45	2.25	6.12	8.16	2.25	2.25	0.10	
C ₂	22.10	20.10	11.00	20.20	2.60	2.46	2.25	5.69	8.55	2.21	1.10	0.50	
B ₁	98.10	90.30	50.00	90.75	7.80	7.32	6.60	6.56	9.85	2.24	0.11	0.50	
B ₂	92.70	85.00	47.80	85.60	7.80	7.30	6.45	6.83	11.62	2.29	1.62	0.71	
b ₁	-	-	-	-	-			-	-	-	-	-	
b ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
								6.30	9.54	2.25	2.13	0.45	average
D ₁	23.30	22.40	12.50	22.50	8.10	8.10	7.28	0.00	10.01	2.23	1.00	0.45	
D ₂	46.50	44.40	25.00	44.50	8.10	8.05	7.30	0.62	9.31	2.29	0.52	0.23	
D ₃	64.58	62.30	35.80	62.40	8.10	8.10	6.95	0.00	14.20	2.35	0.38	0.16	
D ₄	70.70	67.20	36.60	79.20	8.10	8.10	7.95	0.00	1.86	2.20	39.20	17.89	Under fired
								0.16	8.84	2.27	10.27	4.68	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 5MC													
C ₁	22.30	20.20	11.50	20.32	2.60	2.51	2.20	3.58	12.35	2.32	1.27	5.45	
C ₂	23.15	21.00	12.00	21.10	2.60	2.52	2.22	3.18	11.90	2.34	1.11	0.48	
B ₁	91.60	83.90	16.40	84.80	7.80	7.32	6.49	6.57	11.35	2.24	2.40	1.07	
B ₂	90.40	82.60	45.70	83.90	7.80	7.33	6.50	6.40	11.32	2.24	3.53	1.62	
b ₁	26.20	24.50	13.10	24.50	16.00	15.80	13.60	1.26	13.90	2.15	0.00	0.00	
b ₂	26.15	24.45	13.00	24.50						2.18	0.44	0.24	
								4.19	12.16	2.25	1.46	1.48	average
D ₁	21.40	19.80	10.00	19.80	8.10	8.00	7.10	1.25	11.25	2.20	0.00	0.00	
D ₂	43.80	40.50	22.40	43.40	8.10	8.00	7.38	1.25	7.75	2.24	16.51	7.16	
D ₃	64.80	59.70	34.40	59.90	8.10	8.05	6.85	0.62	15.00	2.36	0.79	0.33	
D ₄	62.30	54.40	31.30	59.50	8.10	8.08	7.30	0.25	9.66	2.35	18.10	9.38	
								0.89	10.91	2.29	8.85	4.97	average
S 10MC													
C ₁	20.00	18.10	10.10	18.80	2.60	2.56	2.19	1.56	14.45	2.26	8.76	3.87	
C ₂	21.80	19.80	11.20	20.20	7.60	2.57	2.25	1.17	12.46	2.30	4.65	2.22	
B ₁	81.00	73.30	40.40	74.40	7.80	7.30	6.10	6.85	16.45	2.21	3.34	1.50	
B ₂	75.30	67.50	47.20	68.63	7.80	7.28	6.00	7.13	17.00	2.22	3.73	1.81	
b ₁	27.00	25.20	13.90	29.00	16.00	15.60	14.60	2.56	6.42	2.23	25.90	3.76	
b ₂	28.90	27.10	14.20	27.10	16.00	15.62	14.80	2.50	5.12	2.10	0.00	0.00	
								3.66	11.98	3.76	7.73	2.03	average
D ₁	23.50	20.70	12.00	20.90	8.10	8.00	6.91	1.25	13.61	2.38	2.30	0.97	
D ₂	41.50	41.00	23.50	42.00	8.10	8.00	7.00	1.25	12.50	2.34	8.72	2.44	
D ₃	57.50	51.50	29.30	51.50	8.10	8.05	6.58	0.62	18.25	2.32	0.00	0.00	
D ₄	79.30	69.60	40.40	69.80	8.10	8.05	7.03	0.62	12.68	2.38	0.69	0.29	
								0.93	14.26	2.35	2.18	0.90	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp. Gr.	%P	%A	REMARKS
S 15MC													
C ₁	22.30	20.20	11.60	20.40	2.60	2.50	2.18	4.00	12.80	2.35	2.33	0.99	
C ₂	22.10	20.00	11.50	20.30	2.60	2.51	2.19	3.59	12.75	2.35	3.53	1.50	
B ₁	81.80	74.20	42.00	76.30	7.80	7.25	6.18	7.58	14.80	2.31	6.53	2.83	
B ₂	80.90	73.00	4.00	75.10	7.80	7.10	6.10	9.86	14.10	2.30	6.58	2.88	
b ₁	28.70	27.10	14.20	27.10	16.00	15.70	14.70	1.91	6.39	2.10	0.00	0.00	
b ₂	30.60	29.00	15.10	29.20	16.00	15.70	14.85	1.91	5.32	2.09	1.48	0.69	
								4.81	11.03	2.25	3.41	1.48	average
D ₁	21.20	19.40	10.00	19.90	8.10	8.10	7.00	0.00	13.70	2.07	5.33	2.58	
D ₂	39.72	36.00	20.00	39.50	8.10	8.08	7.10	0.25	10.90	2.25	22.58	11.59	
D ₃	51.40	55.10	31.70	55.30	8.10	8.05	6.90	0.62	14.30	2.36	0.86	0.36	
D ₄	61.80	55.50	31.50	55.50	8.10	8.08	6.70	0.25	17.10	2.32	0.00	0.00	
								0.28	14.00	2.25	7.19	3.63	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE No. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS	
S	C ₁	20.20	17.60	9.60	17.80	2.60	2.40	2.15	8.35	10.40	2.20	2.50	0.11	
	C ₂	20.21	18.50	10.20	18.50	2.60	2.40	2.15	8.35	10.40	2.23	0.00	0.00	
	B ₁	98.00	90.70	48.90	91.30	7.80	7.50	6.60	4.00	12.00	2.17	1.23	0.62	
	B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
	b ₁	13.80	12.30	7.00	12.30	16.00	15.80	13.90	1.26	12.00	2.36	0.00	0.00	
	b ₂	12.90	10.50	6.00	10.55	16.00	15.80	13.60	1.26	13.90	2.34	11.10	4.76	
								4.65	11.7	2.26	2.97	1.09	average	
S	D ₁	21.90	20.80	12.00	20.90	8.10	8.05	7.10	0.62	11.80	2.36	1.13	0.48	
	D ₂	45.20	43.00	25.00	43.10	8.10	8.05	7.09	0.62	11.90	2.39	0.56	0.23	
	D ₃	56.90	53.00	29.20	57.60	8.10	8.00	6.95	1.25	13.15	2.22	19.35	9.58	
	D ₄	60.40	56.30	32.00	56.40	8.10	8.10	7.12	0.00	12.10	2.32	.42	.18	
								0.62	11.80	2.32	5.37	2.10	average	
A	C ₁	23.00	20.90	11.80	21.18	2.60	2.58	2.30	0.76	10.83	2.30	1.12	1.34	
	C ₂	22.40	20.70	11.70	21.00	2.60	2.58	2.29	0.76	11.30	2.30	3.34	1.22	
	B ₁	99.00	91.30	51.00	91.90	7.80	7.25	6.50	7.60	10.35	2.26	1.39	0.66	
	B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
	b ₁	15.70	14.30	8.20	20.60	8.00	7.80	7.40	2.57	5.13	2.34	0.00	0.00	
	b ₂	22.00	20.60	11.60	20.60	11.10	10.90	10.30	0.92	5.50	2.29	0.00	0.00	
								3.56	8.90	2.29	0.98	0.54	average	
A	D ₁	22.50	21.20	12.10	21.25	8.10	8.05	7.13	0.62	11.50	2.33	0.55	0.24	
	D ₂	43.10	42.20	24.70	42.30	8.10	8.02	7.09	0.99	11.60	2.42	0.57	0.17	
	D ₃	65.60	61.60	35.10	61.70	8.10	8.05	6.98	0.62	13.60	2.33	0.38	0.16	
	D ₄	60.50	56.50	32.40	56.55	8.10	8.10	7.14	0.00	13.20	2.34	0.23	0.89	
								0.56	12.48	2.34	0.44	0.36	average	

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE No. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
B C ₁	19.60	17.40	9.90	17.50	2.60	2.42	2.05	7.45	15.60	2.22	1.36	0.58	
C ₂	19.55	17.40	9.85	18.25	2.60	2.41	2.10	7.80	12.90	2.36	1.15	4.89	
B ₁	88.90	81.10	45.30	81.15	7.80	7.50	6.25	4.00	16.70	2.26	1.14	0.49	
B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
b ₁	30.50	29.00	16.90	29.00	16.00	15.80	14.40	1.26	8.86	2.40	0.00	0.00	
b ₂	26.40	24.80	14.55	24.80	16.00	15.85	14.50	0.95	8.46	2.41	0.00	0.00	
								4.29	12.52	2.33	0.73	1.19	average
B D ₁	26.40	24.70	14.60	24.70	8.10	8.00	7.70	1.25	3.75	2.40	0.00	0.00	
D ₂	71.80	67.00	38.20	67.00	8.10	8.00	7.00	1.25	12.50	2.32	0.00	0.00	
D ₃	70.10	65.60	38.00	65.60	8.10	8.05	7.12	0.62	11.51	2.38	0.00	0.00	
D ₄	76.30	72.30	41.50	72.50	8.10	8.05	7.10	0.62	11.80	2.35	0.65	0.28	
								0.94	9.89	2.37	0.16	0.07	average
C C ₁	21.60	19.70	11.15	19.75	2.60	2.50	2.20	4.88	12.70	2.30	0.59	0.25	
C ₂	22.20	20.30	11.50	20.40	2.60	2.51	2.20	3.58	12.40	2.30	1.15	0.49	
B ₁	88.40	81.70	46.20	81.80	7.80	7.28	6.28	7.15	13.75	2.30	0.28	0.13	
B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
b ₁	25.00	23.30	13.30	23.80	16.10	15.65	14.20	2.87	9.45	2.33	5.00	2.15	
b ₂	20.20	18.50	10.20	18.50	12.07	11.08	9.90	16.10	25.30	2.23	0.00	0.00	
								6.91	14.76	2.29	1.40	0.60	average
C D ₁	26.60	25.00	14.10	25.00	8.10	8.05	7.33	0.62	8.95	2.29	0.00	0.00	
D ₂	100.00	93.50	52.40	93.50	8.10	8.00	7.50	1.25	6.25	2.27	0.00	0.00	
D ₃	66.65	63.30	36.40	66.40	8.10	8.05	7.20	0.62	10.60	2.36	11.50	4.90	
D ₄	67.60	63.60	36.90	65.10	8.10	8.07	7.22	0.37	10.50	2.38	5.62	2.36	
								0.72	9.08	2.30	4.28	1.82	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE No. 8 (1,250°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS	
D	C ₁	20.20	18.10	9.70	18.15	2.60	2.52	2.20	3.18	12.70	2.16	0.60	0.28	
	C ₂	20.21	18.00	9.80	18.05	2.60	2.51	2.20	3.59	12.70	2.19	0.61	0.28	
	B ₁	87.40	79.60	43.80	79.70	7.80	7.50	6.80	4.00	9.35	2.18	0.28	0.13	
	B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
	b ₁	26.10	24.50	13.60	24.65	16.00	15.50	14.00	3.22	9.69	2.25	1.38	0.61	
	b ₂	29.50	27.80	15.00	27.90	16.00	15.60	14.40	2.57	7.70	2.19	0.78	0.67	
								4.14	10.42	2.19	0.73	0.40	average	
D	D ₁	27.10	25.70	13.00	25.80	8.10	8.00	6.75	1.25	15.60	2.01	0.79	0.39	
	D ₂	59.65	56.40	32.50	56.40	8.10	8.00	7.60	1.25	3.75	2.36	0.00	0.00	
	D ₃	60.90	57.40	32.90	57.42	8.10	8.00	7.80	1.25	2.50	1.68	0.08	0.03	
	D ₄	63.50	59.50	34.10	59.52	8.10	8.05	7.00	0.62	6.23	2.34	0.07	0.03	
								1.09	11.25	2.10	0.24	0.11	average	
E	C ₁	21.40	19.50	8.50	19.60	2.60	2.55	2.40	1.96	5.90	1.90	0.92	0.51	
	C ₂	21.30	19.30	8.50	19.45	2.60	2.55	2.40	1.96	5.90	1.79	1.39	0.77	
	B ₁	98.10	90.50	38.30	90.50	7.80	7.50	7.00	4.00	6.65	1.84	0.00	0.00	
	B ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
	b ₁	23.00	21.30	11.00	23.00	15.10	14.60	10.90	3.42	25.40	2.10	16.75	7.98	
	b ₂	29.30	27.80	14.40	28.90	16.20	16.00	15.40	1.25	8.75	2.08	8.20	3.96	
								2.52	10.52	1.94	5.45	3.64	average	
E	D ₁	23.10	21.70	12.40	21.80	8.10	8.05	7.30	6.22	9.34	2.34	1.08	0.46	
	D ₂	70.30	65.50	38.50	65.70	8.10	8.00	7.00	1.25	12.50	2.40	0.74	0.36	
	D ₃	67.80	64.30	36.90	68.30	8.10	8.05	7.15	0.62	11.20	2.35	14.60	6.23	
	D ₄	66.30	62.30	36.00	64.60	8.10	8.05	7.20	0.62	10.60	2.36	8.75	3.70	
									2.17	10.91	2.36	6.29	2.68	

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr	%P	%A	REMARKS
A C ₁	20.05	17.90	9.60	18.00	2.60	2.40	2.13	8.32	11.30	2.13	1.21	0.56	
C ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
B ₁	97.20	89.40	48.00	90.10	7.80	7.70	6.50	1.30	15.60	2.37	1.69	0.78	
B ₂	96.43	88.80	47.70	89.20	7.80	7.65	6.55	1.96	14.40	2.15	0.96	0.45	
b ₁	39.40	37.40	20.90	37.50	16.00	15.70	14.50	1.91	7.65	2.27	0.61	0.27	
b ₂	33.80	32.30	18.00	32.50	16.00	15.60	14.30	2.50	8.10	2.25	1.40	0.62	
								3.18	11.41	2.34	1.17	0.54	average
D ₁		21.00	11.90	21.05	8.10	8.05	7.12	0.62	11.55	2.31	0.55	0.24	
D ₂		39.10	22.40	39.10	8.10	8.10	6.91	0.00	14.70	2.34	0.00	0.00	
D ₃	-	-	-	-	-	N O N E		-	-	-	-	-	
D ₄		59.40	34.00	59.40	8.10	8.10	7.03	0.00	13.20	2.29	0.00	0.00	
S 5K								0.21	13.15	2.31	0.18	0.08	average
C ₁	23.45	21.30	11.00	24.05	2.60	2.58	2.43	0.78	5.65	2.08	26.90	12.90	Under fired
C ₂	-	-	-	-	-	- N O N-E		-	-	-	-	-	
B ₁	86.50	88.40	47.00	93.90	7.80	7.52	6.60	3.73	12.30	2.14	13.30	6.13	" "
B ₂	97.63	90.00	49.00	92.80	7.80	7.32	6.60	6.56	9.85	2.20	6.83	3.11	
b ₁	15.30	13.60	7.30	15.50	16.00	15.80	14.55	1.26	8.46	2.16	30.02	13.99	" "
b ₂	31.60	29.80	16.80	30.10	16.00	15.80	14.60	1.26	7.60	2.29	2.31	0.75	
								2.72	8.77	2.17	10.47	7.37	average
D ₁	21.75	20.60	11.80	20.80	8.10	8.05	7.19	0.62	10.69	2.34	2.27	0.97	
D ₂	46.90	44.60	25.80	45.00	8.10	8.05	7.18	0.62	10.80	2.37	2.13	0.90	
D ₃	-	-	-	-	-	N O N E		-	-	-	-	-	
D ₄	76.60	72.20	41.40	72.50	8.10	8.10	7.14	0.00	13.10	2.34	1.07	0.42	
								0.21	11.53	2.35	1.09	0.76	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE No. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	SP	%A	REMARKS
S 10K													
C ₁	23.60	21.40	11.00	23.90	2.60	2.58	2.43	0.78	5.82	2.06	25.05	11.68	Under fired
C ₂	-	-	-	-	-	N C	N E	-	-	-	-	-	
B ₁	92.83	84.90	46.50	85.30	7.80	7.35	6.78	6.12	7.90	2.23	1.04	0.47	
B ₂	95.40	87.60	48.00	88.40	7.80	7.30	6.64	6.85	7.62	2.25	2.20	0.91	
b ₁	24.30	22.50	12.50	22.70	16.00	15.50	13.50	3.23	12.90	2.25	2.00	0.89	
b ₂	17.20	15.20	8.50	18.00	16.00	15.50	13.35	3.23	13.90	2.24	41.70	18.55	Under fired
								4.04	9.63	2.21	4.40	6.50	average
D ₁	26.80	25.60	14.80	25.90	8.10	8.05	7.27	0.62	9.07	2.37	2.78	1.16	
D ₂	46.40	43.90	25.70	43.90	8.10	8.05	7.14	0.62	11.30	2.41	0.00	0.00	
D ₃	-	-	-	-	-	N C	N E	-	-	-	-	-	
D ₄	84.00	79.40	45.70	79.60	8.10	8.10	7.33	0.00	9.51	2.35	0.59	0.25	
								0.41	9.96	2.36	1.12	0.47	average
S 15K													
C ₁	34.35	23.20	12.00	26.10	2.60	2.50	2.20	3.85	12.00	2.07	25.90	12.50	Under fired
C ₂	-	-	-	-	-	N C	N E	-	-	-	-	-	
B ₁	100.90	93.10	50.50	95.50	7.80	7.35	6.55	6.12	10.89	2.18	8.63	2.57	
B ₂	98.50	90.80	48.20	95.40	7.80	7.40	6.55	5.13	11.49	2.13	10.79	5.25	Under fired
b ₁	28.70	27.10	14.50	30.20	16.00	15.80	18.80	1.26	6.33	2.15	24.60	11.42	Under fired
b ₂	29.40	27.90	15.60	28.30	16.00	15.70	14.30	1.91	8.87	2.27	3.28	1.44	
								3.22	9.93	2.16	14.04	6.62	average
D ₁	20.20	19.10	11.00	19.10	8.10	8.08	7.15	0.25	11.50	2.36	0.00	0.00	
D ₂	46.90	44.80	25.90	45.00	8.10	8.05	7.15	0.62	12.60	2.37	1.59	0.67	
D ₃	-	-	-	-	-	N C	N E	-	-	-	-	-	
D ₄	67.50	63.00	35.00	63.50	8.10	8.10	7.33	0.00	9.51	2.25	1.79	0.79	
								0.29	11.20	2.32	1.13	0.48	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 5BA													
C ₁	22.20	20.30	10.20	22.20	2.60	2.56	2.33	1.56	9.00	2.01	14.50	9.35	Under fired
C ₂	-	-	-	-	-	-	N O N E	-	-	-	-	-	
B ₁	95.33	87.70	45.00	96.50	7.80	7.60	6.80	2.63	10.51	2.13	21.39	10.05	" "
B ₂	98.70	90.90	46.50	101.10	7.80	7.52	6.80	3.73	9.56	2.23	23.00	11.22	" "
b ₁	23.40	21.80	12.00	22.20	16.00	15.80	13.65	1.26	13.60	2.22	4.08	1.84	
b ₂	30.10	28.10	15.50	28.40	16.00	15.85	14.25	0.95	10.05	2.23	2.38	1.07	
								3.38	11.01	2.17	13.05	6.70	average
D ₁	21.60	20.40	11.50	20.40	8.10	8.00	7.25	1.25	9.38	2.29	0.00	0.00	
D ₂	47.10	44.30	23.40	44.80	8.10	8.05	7.17	0.62	12.25	2.12	2.39	1.15	
D ₃	-	-	-	-	-	-	N O N E	-	-	-	-	-	
D ₄	64.30	62.30	35.00	62.50	8.10	8.10	7.32	0.00	9.65	2.28	0.73	0.32	
								0.62	10.36	2.22	1.04	0.49	average
S 10BA													
C ₁	19.40	17.40	09.50	20.30	2.60	2.58	2.27	0.78	13.65	2.19	36.70	16.65	Under Fired
C ₂	-	-	-	-	-	-	N O N E	-	-	-	-	-	
B ₁	96.40	88.70	45.70	97.55	7.80	7.50	6.82	4.00	9.10	2.04	20.06	9.95	" "
B ₂	94.70	86.90	45.20	95.10	7.80	7.52	6.76	3.73	10.10	2.08	19.70	9.45	" "
b ₁	29.40	27.80	15.60	28.10	16.00	15.60	14.35	2.57	8.10	2.28	2.46	1.08	
b ₂	28.90	27.20	15.10	27.50	16.00	15.60	14.45	2.57	7.29	2.25	2.48	1.07	
								2.73	9.65	2.18	16.28	7.64	average
B ₁	25.40	24.20	13.70	24.40	8.10	8.08	7.30	0.25	9.66	2.30	1.91	0.83	
B ₂	44.60	41.80	24.00	42.00	8.10	8.05	7.10	0.62	11.80	2.35	1.23	0.48	
D ₃	-	-	-	-	-	-	N O N E	-	-	-	-	-	
D ₄	86.20	81.10	46.60	81.40	8.10	8.08	7.25	0.25	9.05	2.35	0.87	0.37	
								0.37	10.13	2.34	1.30	0.56	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 15BA													
C ₁	20.70	18.80	9.50	20.00	2.60	2.55	2.20	1.96	13.71	2.02	12.90	6.38	Under fired
C ₂	-	-	-	-	-	N	O N E	-	-	-	-	-	
B ₁	93.93	86.30	43.40	97.70	7.80	7.50	6.90	4.00	8.00	2.01	26.60	13.20	Under fired
B ₂	94.30	89.60	43.80	100.10	7.80	7.52	6.82	3.73	9.30	1.99	22.80	11.49	Under fired
b ₁	30.30	28.50	15.20	29.40	16.00	15.80	14.60	1.26	7.60	2.14	6.58	3.16	Under fired
b ₂	30.50	28.80	15.20	29.00	16.00	15.85	14.80	0.95	6.62	2.22	1.47	0.70	
								2.48	9.05	2.06	15.27	6.98	average
D ₁	22.30	20.60	11.50	20.90	8.10	8.00	7.34	1.25	8.25	2.26	3.30	1.46	
D ₂	44.45	51.90	23.40	42.30	8.10	8.05	7.20	0.62	10.55	2.15	2.05	0.96	
D ₃	-	-	-	-	-	N	O N E	-	-	-	-	-	
D ₄	80.00	85.20	41.00	85.80	8.10	8.10	7.54	0.00	6.91	2.20	1.76	0.80	
								0.62	8.57	2.20	2.39	1.07	
S 5FL													
C ₁	23.00	20.80	11.00	21.05	2.60	2.45	2.22	6.13	9.40	2.16	2.55	1.20	
C ₂	-	-	-	-	-	N	O N E	-	-	-	-	-	
B ₁	108.00	100.20	57.20	102.90	7.80	7.70	6.70	1.30	13.00	2.33	6.28	2.70	Under fired
B ₂	89.60	81.90	45.40	82.70	7.80	7.65	6.30	2.00	17.65	2.24	1.74	0.98	
b ₁	29.40	27.80	15.50	28.10	16.00	15.80	14.25	1.26	9.80	2.26	2.44	1.08	
b ₂	29.00	27.20	15.40	27.30	16.00	15.75	14.10	1.59	10.90	2.30	0.85	0.37	
								2.46	12.13	2.26	4.88	1.27	average
D ₁	20.50	19.50	11.20	19.50	8.10	8.08	7.13	0.25	11.38	2.35	0.00	0.00	
D ₂	45.70	43.60	25.00	43.60	8.10	8.08	7.10	0.25	12.12	2.45	0.00	0.00	
D ₃	-	-	-	-	-	N	O N E	-	-	-	-	-	
D ₄	72.30	69.30	39.70	69.65	8.10	8.10	6.90	0.00	14.80	2.34	1.81	0.51	
								1.67	12.76	2.38	0.60	0.13	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 10FL													
C ₁	22.90	21.20	11.30	21.30	2.60	2.55	2.30	1.96	9.80	2.15	1.02	0.47	
C ₂	-	-	-	-	-	-	N O N E	-	-	-	-	-	
B ₁	98.13	90.50	49.90	91.30	7.80	7.50	6.53	4.00	14.50	2.23	1.97	0.86	
B ₂	98.60	90.90	49.40	93.40	7.80	7.65	6.59	1.96	13.85	2.19	6.25	2.77	Under fired
b ₁	28.50	26.90	24.70	27.10	16.00	15.80	14.30	1.26	9.50	2.20	1.65	0.75	
b ₂	29.00	27.20	15.20	27.20	16.00	15.75	14.20	1.59	9.85	2.26	0.00	0.00	
								2.15	11.50	2.20	1.85	0.98	average
D ₁	20.60	19.50	11.10	19.60	8.10	8.08	7.15	0.25	11.50	2.32	1.19	0.51	
D ₂	44.00	41.90	24.10	41.98	8.10	8.05	7.03	0.62	12.69	2.35	0.45	0.19	
D ₃	-	-	-	-	-	-	N O N E	-	-	-	-	-	
D ₄	62.40	59.10	33.70	59.30	8.10	8.08	7.20	0.25	10.89	2.33	0.79	0.34	
								0.37	11.69	2.33	2.81	0.35	average
S 15FL													
C ₁	22.75	20.60	11.00	20.70	2.60	2.55	2.24	1.96	12.30	2.14	1.31	0.49	
C ₂	-	-	-	-	-	-	N O N E	-	-	-	-	-	
B ₁	99.10	91.30	50.40	92.60	7.80	7.70	6.56	1.30	13.80	2.24	3.18	1.43	
B ₂	101.30	93.60	50.60	96.90	7.80	7.75	6.70	0.65	13.55	2.18	7.68	3.52	Under fired
b ₁	29.20	27.20	15.00	27.40	16.00	15.80	14.10	1.26	10.75	2.23	1.64	0.74	
b ₂	29.70	27.90	15.30	27.90	16.00	15.85	14.30	0.95	9.80	2.23	0.00	0.00	
								1.22	12.04	2.20	2.76	1.23	average
D ₁	23.70	22.50	12.80	22.50	8.10	8.00	7.20	1.25	10.00	2.32	0.00	0.00	
D ₂	43.80	42.00	24.00	42.00	8.10	8.00	7.13	1.25	10.90	2.33	0.55	0.24	
D ₃	-	-	-	-	-	-	N O N E	-	-	-	-	-	
D ₄	67.00	63.40	36.20	63.60	8.10	8.08	7.30	0.25	9.67	2.33	1.61	0.32	
								0.92	10.19	2.33	0.72	0.19	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6. (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 5FP													
C ₁	23.25	21.10	11.40	21.70	2.60	2.55	2.30	1.96	9.80	2.18	6.18	2.84	Under fired
C ₂	-	=	-	-	-	N O N E		-	-	-	-	-	
B ₁	89.73	82.10	43.50	82.70	7.80	7.75	6.43	0.65	17.00	2.13	1.51	0.73	
B ₂	94.20	85.40	46.00	85.90	7.80	7.70	6.57	1.30	14.70	2.16	1.27	0.59	
b ₁	29.90	28.20	11.80	28.40	16.00	15.90	14.75	0.63	11.64	1.72	1.22	0.71	
b ₂	25.60	24.10	13.60	24.20	16.00	15.85	13.80	0.95	12.95	2.30	0.95	0.42	
								1.10	13.22	2.09	2.23	3.46	average
D ₁	21.05	20.00	11.50	20.10	8.10	8.05	7.15	0.62	11.50	2.36	1.18	0.50	
D ₂	44.00	41.80	23.80	41.85	8.10	8.05	7.10	0.62	11.80	2.32	0.28	0.12	
D ₃	-	-	-	-	-	N O N E		-	-	-	-	-	
D ₄	65.60	62.50	35.60	62.60	8.10	8.10	7.12	0.00	10.85	2.32	0.37	0.17	
S 10FP								0.43	11.38	2.33	0.61	0.26	average
C ₁	22.00	20.10	10.90	20.20	2.60	2.45	2.24	6.12	8.57	2.18	1.09	0.60	
C ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
B ₁	87.23	79.60	44.00	79.90	7.80	7.65	6.40	2.00	16.35	2.26	0.85	0.38	
B ₂	99.00	91.30	50.20	91.90	7.80	7.70	6.50	1.30	15.60	2.24	1.46	0.66	
b ₁	29.50	27.50	15.40	27.60	16.00	15.85	14.40	0.95	9.15	2.39	0.83	0.36	
b ₂	28.90	27.40	15.50	27.50	16.00	15.80	14.20	1.26	10.11	2.30	0.84	0.37	
								2.33	11.96	2.27	1.01	0.79	average
D ₁	25.00	24.80	13.90	24.90	8.05	8.00	7.25	0.63	9.38	2.28	0.91	0.42	
D ₂	44.50	42.30	24.50	42.30	8.10	8.00	7.09	1.25	11.37	2.38	0.00	0.00	
D ₃	-	-	-	-	-	N O N E		-	-	-	-	-	
D ₄	58.00	54.50	32.20	54.50	8.10	8.08	7.19	0.25	11.00	2.42	0.00	0.00	
								0.71	10.58	2.36	0.30	0.14	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 15 FP													
C ₁	20.60	18.40	9.00	20.50	2.60	2.45	2.29	6.12	9.80	1.96	22.30	11.41	Under fired
C ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
B ₁	81.90	74.10	40.20	75.00	7.80	7.70	6.13	1.30	21.70	2.19	2.65	1.21	
B ₂	81.80	74.10	40.20	74.50	7.80	7.70	6.13	1.30	21.70	2.19	1.17	0.54	
b ₁	26.00	24.00	13.40	24.00	16.00	15.40	13.45	3.94	6.16	2.26	0.00	0.00	
b ₂	30.00	28.20	15.30	28.30	16.00	15.60	14.45	2.57	7.36	2.18	0.78	0.36	
								<u>3.05</u>	<u>13.34</u>	<u>2.16</u>	<u>5.38</u>	<u>2.70</u>	average
D ₁	27.40	25.50	15.00	25.80	8.10	8.00	7.00	1.25	12.49	2.42	2.83	1.18	
D ₂	45.90	40.50	23.70	40.80	8.10	8.00	6.88	1.25	14.00	2.42	1.79	0.74	
D ₃				-	-	N O N E		-	-				
D ₄	75.50	68.40	39.50	68.90	8.10	8.05	7.08	0.62	12.11	2.36	3.46	14.63	
S 5 MC								<u>1.04</u>	<u>12.86</u>	<u>2.40</u>	<u>2.69</u>	<u>5.51</u>	average
G ₁	21.90	20.00	10.40	20.95	2.60	2.50	2.22	4.00	10.20	2.08	9.90	4.75	
C ₂				-	-	N O N E		-	-				
B ₁	74.50	66.80	37.20	67.80	7.80	7.45	6.02	4.70	19.20	2.26	3.38	1.50	
B ₂	96.30	88.50	42.50	92.20	7.80	7.70	6.65	1.30	13.30	1.93	8.05	4.18	Under fired
b ₁	16.80	15.30	8.30	16.30	16.00	12.90	8.76	24.00	32.20	2.18	14.30	6.54	" "
b ₂	28.00	26.30	14.60	26.50	16.00	15.75	14.00	1.59	6.65	2.25	1.71	0.76	
								<u>7.19</u>	<u>16.31</u>	<u>2.14</u>	<u>7.47</u>	<u>3.54</u>	average
D ₁	20.10	18.50	10.40	18.50	8.10	8.00	6.87	1.25	14.12	2.29	0.00	0.00	
D ₂	59.41	55.80	31.80	56.40	8.10	8.00	6.76	1.25	15.50	2.32	2.50	1.87	
D ₃				-	-	N O N E		-	-				
D ₄	55.80	49.90	38.10	50.10	8.10	8.05	6.95	0.62	13.65	2.26	1.69	0.41	
								<u>1.04</u>	<u>14.42</u>	<u>2.29</u>	<u>1.39</u>	<u>0.76</u>	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sub}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
S 10MC													
C ₁	23.20	21.20	21.20	21.20	2.60	2.58	2.28	0.78	11.61	0.00	0.00	0.00	
C ₂	-	-	-	-	-	-	N O N-E	-	-	-	-	-	
B ₁	94.80	87.00	46.00	91.20	7.80	7.45	6.64	4.70	10.75	2.14	10.21	4.84	Under fired
B ₂	96.73	89.10	46.00	96.20	7.80	7.40	6.61	5.13	10.58	2.69	4.86	2.35	
b ₁	29.60	27.90	15.90	28.20	16.00	15.70	14.30	1.93	8.95	2.32	2.50	1.08	
b ₂	31.00	29.40	16.50	29.50	16.00	15.75	14.50	1.58	7.95	2.28	0.76	0.34	
								2.82	9.97	1.88	3.67	1.72	average
D ₁	24.20	23.30	13.00	23.40	8.10	8.10	7.19	0.00	11.22	2.26	0.97	0.43	
D ₂	47.10	45.00	25.70	45.00	8.10	8.05	7.18	0.62	10.80	2.33	0.00	0.00	
D ₃	-	-	-	-	-	-	N O N E	-	-	-	-	-	
D ₄	63.40	60.40	34.30	60.54	8.10	8.10	7.29	0.00	10.00	2.31	0.54	0.23	
S 15MC								0.30	10.67	2.30	0.50	0.33	average
C ₁	12.05	19.90	10.10	22.40	2.60	2.50	2.35	4.00	6.00	2.03	25.50	12.59	Under fired
C ₂	-	-	-	-	-	-	N O N E	-	-	-	-	-	
B ₁	91.20	83.50	39.50	101.60	7.80	7.73	7.10	0.91	8.15	1.89	41.01	21.65	
B ₂	91.03	83.40	44.00	101.20	7.80	7.70	7.07	1.30	8.20	2.18	47.50	21.30	" "
b ₁	26.00	24.90	24.50	25.20	16.00	15.70	14.00	1.91	10.80	2.18	2.63	1.21	
b ₂	27.20	25.20	13.50	26.80	16.00	15.75	14.25	1.59	9.55	2.13	13.69	6.35	" "
								1.94	8.54	2.08	26.07	10.62	average
D ₁	24.80	23.20	13.60	23.20	8.10	8.00	7.13	1.25	10.89	2.42	0.00	0.00	
D ₂	45.42	42.10	23.60	42.10	8.10	8.00	7.08	1.25	11.50	2.27	0.00	0.00	
D ₃	-	-	-	-	-	-	N O N E	-	-	-	-	-	
D ₄	64.50	58.40	33.70	58.50	8.10	8.08	7.22	0.25	9.40	2.46	0.42	0.17	
								0.92	10.59	2.38	0.14	0.06	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS		
S	C ₁	19.80	17.90	9.60	18.00	2.60	2.45	2.13	6.12	13.05	2.28	1.20	0.55		
	C ₂	-	-	-	-	-	N O N E		-	-	-	-	-		
	B ₁	92.10	89.40	48.00	90.10	7.80	7.50	6.50	4.00	13.35	2.16	1.69	0.78		
	B ₂	96.40	88.80	47.70	89.20	7.80	7.45	6.55	4.83	12.40	2.16	0.97	0.45		
	b ₁	20.40	18.40	9.90	18.50	16.00	EXCESSIVE DEFORM				2.16	1.16	0.55		
	b ₂	20.50	18.80	8.70	18.90	16.00	"		"		1.82	0.98	0.53		
									4.98	12.90	2.11	1.20	0.57	average	
	D ₁	22.70	21.00	11.95	21.05	8.10	8.05	7.12	0.62	11.55	2.32	0.82	0.23		
	D ₂	41.35	39.10	22.40	39.10	8.10	7.80	6.91	3.85	11.80	2.34	0.00	0.00		
	D ₃	-	-	-	-	-	N O N E		-	-	-	-	-		
	D ₄	63.40	59.40	34.00	59.40	8.10	8.00	7.03	1.25	12.10	2.34	0.00	0.00		
									1.90	11.80	2.33	0.27	0.08	average	
	A	C ₁	24.25	22.10	11.40	23.65	2.60	2.56	2.40	1.56	6.20	2.03	14.50	7.01	Under fired
		C ₂	-	-	-	-	-	N O N E		-	-	-	-	-	
B ₁		100.00	92.23	51.80	92.60	7.80	7.60	6.47	2.63	1.48	2.28	0.92	0.40		
B ₂		96.20	88.60	49.90	88.70	7.80	7.65	6.42	1.96	1.61	2.29	0.25	0.11		
b ₁		29.90	27.70	14.40	28.50	16.40	16.20	15.30	1.26	5.55	2.08	5.65	2.89		
b ₂		32.90	31.20	17.30	31.40	16.00	15.70	14.20	1.91	9.55	2.24	1.42	0.64		
									1.86	4.87	2.19	4.54	2.21	average	
E ₁		50.90	46.10	26.60	47.00	8.10	8.05	7.16	0.62	11.06	2.36	4.62	1.95		
D ₃		-	-	-	-	-	N O N E		-	-	-	-	-		
D ₄		74.00	69.90	40.10	70.10	8.10	8.00	7.24	1.25	9.50	2.34	0.67	0.28		
								0.93	10.28	2.35	2.65	1.12	average		

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS
B C ₁	20.70	18.80	9.60	80.30	2.60	2.42	2.20	7.40	9.10	2.04	16.60	7.98	Under fired
B C ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
B B ₁	82.73	75.00	40.20	78.30	7.80	7.50	6.10	4.00	18.65	2.16	9.48	4.40	" "
B B ₂	82.10	74.40	40.60	77.35	7.80	7.40	6.07	5.40	17.95	2.20	8.74	3.97	" "
B b ₁	32.90	29.50	16.70	29.50	16.00	15.80	13.80	1.25	12.65	2.32	0.00	0.00	
B b ₂	32.60	28.50	16.00	28.80	16.00	15.90	14.00	0.62	11.95	2.28	2.34	1.05	
								3.72	14.00	2.20	6.21	3.48	average
B D ₁	17.60	16.10	9.50	16.20	8.10	8.05	7.12	0.62	11.55	2.44	1.53	0.62	
B D ₂	48.90	45.90	26.60	46.20	8.10	8.05	7.10	0.62	11.80	2.38	1.56	0.65	
B D ₃	-	-	-	-	-	N O	N E	-	-	-	-	-	
B D ₄	73.50	67.00	37.30	67.40	8.10	8.00	7.23	1.25	9.63	2.03	1.21	0.59	
								0.83	10.90	2.28	1.43	0.62	average
C C ₁	21.90	19.90	10.40	21.90	2.60	2.51	2.30	3.49	8.36	2.10	21.00	10.06	Under fired
C C ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
C B ₁	95.33	87.70	49.00	89.20	7.80	7.28	6.48	7.15	11.00	2.27	3.78	1.71	
C B ₂	57.73	80.00	44.00	81.10	7.80	7.20	6.20	8.45	13.91	2.22	3.06	1.38	
C b ₁	20.20	18.70	9.50	18.90	8.90	8.40	7.50	5.95	10.70	2.03	2.18	1.07	
C b ₂	20.30	18.50	9.40	18.70	8.56	8.10	7.40	5.68	8.65	2.03	2.20	1.80	
								6.15	10.51	2.13	6.44	3.07	average
C D ₁	30.40	29.30	16.80	29.36	8.10	7.90	7.34	2.53	7.10	2.29	0.47	0.21	
C D ₂	-	-	-	-	-	N O	N E	-	-	-	-	-	
C D ₃	57.10	53.20	31.00	53.45	8.10	7.90	7.29	2.53	7.72	2.39	1.13	0.47	
C D ₄	86.40	82.30	47.20	86.60	8.10	8.00	7.42	1.25	7.25	2.34	3.70	1.58	
								2.10	7.35	2.34	1.77	0.75	average

TABLE PHYSICAL DATA & PROPERTIES OF TEST BODIES

CONE NO. 6 (1,200°C)

BODY	W _d	W _f	W _{sus}	W _s	L _p	L _d	L _f	%S _d	%S _f	Sp.Gr.	%P	%A	REMARKS		
D	C ₁	21.60	19.40	10.20	19.80	2.60	2.52	2.20	3.18	12.70	2.11	4.34	2.06		
	C ₂	-	-	-	-	-	N O N E	-	-	-	-	-	-		
	B ₁	86.60	78.80	43.00	79.10	7.80	7.20	6.15	8.34	14.60	2.20	0.84	0.38		
	B ₂	86.32	78.70	43.00	78.70	7.80	7.31	6.15	6.70	15.85	2.21	0.00	0.00		
	b ₁	37.30	35.60	19.20	35.70	16.10	15.80	14.80	1.90	6.01	2.16	0.61	0.12		
	b ₂	34.50	32.90	14.20	33.10	16.10	15.80	14.90	1.90	5.70	1.76	1.14	0.61		
									4.41	10.92	2.09	1.44	0.63	average	
	D ₁	24.30	22.60	13.23	22.68	8.10	8.05	7.18	0.62	10.80	2.39	0.41	0.18		
	D ₂	50.85	46.06	26.70	46.05	8.10	8.00	7.20	1.25	10.00	2.38	0.00	0.00		
	D ₃	-	-	-	-	-	N O N E	-	-	-	-	-	-		
	D ₄	60.00	56.00	32.90	56.00	8.10	7.80	6.87	3.85	11.90	2.43	0.00	0.00		
									1.93	10.90	2.39	0.14	0.06	average	
	E	C ₁	21.10	19.20	10.50	19.30	2.60	2.45	2.14	6.12	12.65	2.20	1.15	0.52	
		C ₂	-	-	-	-	-	-N O N E	-	-	-	-	-	-	
B ₁		94.80	87.10	47.10	87.75	7.80	7.60	6.42	1.32	15.50	2.18	1.65	0.74		
B ₂		93.30	85.80	46.90	86.10	7.80	7.60	6.40	2.78	15.79	2.20	0.77	0.35		
b ₁		42.00	34.30	17.90	34.40	16.10	15.75	14.90	2.22	5.40	2.09	0.61	0.29		
b ₂		42.80	35.20	19.20	35.20	16.10	15.75	14.80	2.22	6.03	2.21	0.00	0.00		
									2.90	11.05	2.17	0.84	0.38	average	
D ₁		-	-	-	-	-	N O N E	-	-	-	-	-	-		
D ₂		49.00	45.50	26.50	49.20	8.10	7.90	7.36	2.53	6.85	2.39	19.50	8.15	Under fired	
D ₃		-	-	-	-	-	N O N E	-	-	-	-	-	-		
D ₄		81.80	77.70	44.80	83.80	8.10	8.00	7.40	1.25	7.50	2.36	18.60	0.79	" "	
								1.89	7.17	2.38	19.05	4.47	average		

TABLE OF MECHANICAL DATA & PROPERTIES (compressive)

OF TEST BODIES.
CONE 9 (1,280°C)

BODY	W_f	DIMENSION D average cm.	AREA cm. ²	LOAD kg.	STRESS kg/cm. ²	REMARKS
<u>SECTION A</u>						
S 5FL	20.00	2.44	3.27	5050	1455	
	21.90	2.44	3.27	4970	1520	1487.5
S 10FL	19.80	2.35	4.34	3540	810	
	20.00	2.33	4.26	5100	1998	1404
S 15FL	21.50	2.48	4.86	4750	987	
	22.30	2.43	4.65	3819	821	904
S 5MC	18.10	2.00	3.125	3810	1216	
	-	-	-	-	-	
S 10MC	18.70	2.05	3.26	3750	1300	
	-	-	-	-	-	
S 15MC	18.60	2.50	4.91	3220	655	
	-	-	-	-	-	
S 5FP	20.60	2.41	4.57	4580	965	
	20.80	2.40	4.54	3458	760	862.5
S 10FP	26.39	2.48	4.86	6058	1245	
	22.50	2.48	4.86	5440	1118	1181.5
S 15FP	20.20	2.31	4.18	5580	1335	
	20.60	2.39	4.49	6360	1420	1337.5
S 5K	22.10	2.45	4.76	4260	895	
	22.30	2.44	4.70	4270	910	902.5
S 10K	22.70	2.46	4.78	4390	918	
	22.20	2.45	4.76	4995	1005	961.5
S 15K	22.10	2.40	4.63	5895	1270	
	21.10	2.43	4.64	6535	1410	1340



TABLE OF MECHANICAL DATA & PROPERTIES (compressive)

OF TEST BODIES.
CONE 9 (1,280°C)

BODY	W_f	DIMENSION D average cm.	AREA cm ²	LOAD Kg.	STRESS Kg/cm ²	REMARKS
<u>SECTION A</u>						
S 5BA	20.00	2.38	4.47	3225	720	
	18.00	2.10	3.48	2860	823	771.5
S 10BA	19.80	2.44	4.69	1680	359	
	18.90	2.45	4.76	1590	333	346
S 15BA	23.30	2.50	4.92	852	175	
	19.30	2.50	4.92	898	183	179
<u>SECTION B</u>						
S	19.70	2.30	4.15	3945	955	
	22.00	2.30	4.15	4040	1005	
A	18.60					
B	18.70					
	18.20					
C	18.20					
	20.20					
D	19.30					
	17.70					
E	18.20					
	16.70					
	18.80					

TABLE OF MECHANICAL DATA & PROPERTIES (Compressive)

OF TEST BODIES.
CONE 8 (1,250°C)

BODY	W_f	DIMENSION D average cm.	AREA cm. ²	LOAD kg.	STRESS kg/cm. ²	REMARKS.
						(average)
<u>SECTION A</u>						
S 5K	21.50	2.315	4.22	6080	1470	
	21.10	2.30	4.16	3209	775	1122.5
S 10K	21.50	2.305	4.17	4060	973	
	21.20	2.31	4.17	3640	875	924
S 15K	21.90	2.305	4.17	6130	1470	
	23.40	2.35	4.32	6025	1389	1429.5
S 5BA	20.00	2.23	3.90	3190	820	
	20.50	2.225	3.88	2651	685	752.5
S 10BA	19.00	2.225	3.90	5160	1324	
	19.40	2.29	3.78	2310	615	969.5
S 15BA	19.80	2.24	3.97	3822	970	
	19.40	2.25	3.94	2081	520	745
S 5FL	20.10	2.30	4.16	4938	1198	
	20.60	2.25	4.09	5440	1330	1264
S 10FL	20.90	2.30	4.16	5140	1236	
	21.20	2.31	4.17	4440	1064	1150
S 15FL	20.50	2.26	4.30	5525	1284	
	20.10	2.20	3.81	5720	1500	1392
S 5FP	21.00	2.29	4.13	3780	917	841
	21.50	2.33	4.27	3260	765	
S 10FP	20.60	2.29	4.13	3621	880	880
S 15FP	20.00	2.20	3.18	2720	715	
	20.10	2.25	4.98	4121	823	769

TABLE OF MECHANICAL DATA & PROPERTIES (Compressive)

OF TEST BODIES.
CONE 8 (1,250°C)

BODY	W_f	DIMENSION D average cm.	AREA cm. ²	LOAD kg.	STRESS kg/cm. ²	REMARKS
						(average)
<u>SECTION A</u>						
S 5WH	20.90	2.305	4.17	3690	885	
	20.80	2.29	4.12	2850	692	788.5
S 10WH	21.60	2.31	4.17	2900	695	
	22.00	2.325	4.22	6630	1572	1133.5
S 15WH	22.70	2.325	4.22	3890	924	
	21.70	2.295	4.125	3311	754.5	838.25
S 5MC	20.20	2.225	3.80	4180	1103	
	20.00	2.25	4.97	4580	923	1013
S 10MC	18.10	2.18	3.74	3870	1035	
	19.80	2.24	3.93	3290	837.0	936
S 15MC	20.20	2.25	4.00	2900	725	725
<u>SECTION B</u>						
S	17.60	2.07	4.36	5780	1692	
	18.50	2.20	4.84	6570	1730	1711
A	20.70	2.29	4.13	3820	925	
	20.90	2.30	4.16	3390	732	828.5
B	18.40	2.08	3.42	4190	1325	
	17.40	2.00	3.14	4080	1300	1312.5
C	19.30	2.14	4.20	1108	264	264
D	18.10	2.20	3.80	5600	1630	
	18.00	2.15	3.60	5440	1510	1570
E	19.30	2.41	4.52	1420	326	
	19.50	2.39	4.49	1359	303	314.5

TABLE OF MECHANICAL DATA & PROPERTIES (compressive)

OF TEST BODIES
CONE 6 (1,200°C)

BODY	W_f	DIMENSION D average cm.	AREA cm. ²	LOAD Kg.	STRESS Kg/cm. ²	REMARKS
<u>SECTION A</u>						
S 5K	21.30	2.425	4.72	1610	320	
S 10K	21.40	2.415	4.59	1530	334	
S 15K	23.20	2.49	6.20	1013	164	
S 5BA	20.30	2.325	4.22	1850	499	
S 10BA	17.40	2.27	4.05	1892	472	
S 15BA	18.80	2.225	3.89	1470	379	
S 5FL	20.50	2.23	3.82	2347	616	
S 10FL	21.20	2.29	4.21	1150	274	
S 15FL	20.60	2.25	3.60	1135	312	
S 5FP	21.10	2.285	3.99	1650	412	
S 10FP	20.10	2.25	3.89	3390	871	
S 15FP	21.20	2.29	4.14	1780	432	
S 5MC	19.90	2.50	4.94	1468	297	
S 10MC	10.40	2.315	4.23	850	205	
S 15MC	20.00	2.225	3.89	1305	345	
<u>SECTION B</u>						
S	22.10	2.27	4.04	1035	256	
A	22.10	2.45	4.86	1560	326	
B	18.80	2.20	3.84	1672	434	
C	19.90	2.28	4.20	1109	214	
D	19.40	2.22	3.89	1449	372	
E	19.30	2.14	3.60	1429	368	

TABLE OF MECHANICAL DATA & PROPERTIES (Tensile)

OF TEST BODIES.
CONE 9 (1,280°C)

BODY	W_f	DIMENSION A average cm.	AREA cm. ²	LOAD kg.	STRESS kg/cm. ²	REMARKS
<u>SECTION A</u>						
S 5K	90.70	(2.15x2.25)	4.70	490	104	
S 10K	86.10	(2.10x2.20)	4.16	485	116.2	
S 15K	88.00	(2.20x2.33)	5.125	720	140.09	
S 5BA	83.20	(1.99x2.50)	4.98	260	52.10	
S 10BA	86.90	(2.23x2.25)	5.01	350	69.60	
S 15BA	90.50	(2.20x2.50)	5.50	300	54.50	
S 5FL	109.50	(2.28x3.28)	7.46	700	93.60	
S 10FL	90.90	(2.15x2.33)	5.01	480	95.70	
S 15FL	90.20	(2.19x2.50)	5.48	320	58.40	
S 5FP	90.20	(2.00x2.39)	4.78	310	64.80	
S 10FP	82.20	(2.00x2.10)	4.20	510	121.20	
S 15FP	86.60	(2.10x2.44)	5.05	590	107.01	

TABLE OF MECHANICAL DATA & PROPERTIES (Tensile)

OF TEST BODIES.
CONE 9 (1,280°C)

BODY	W_f	DIMENSION A average cm.	AREA cm. ²	LOAD kg.	STRESS kg/cm. ²	REMARKS
<u>SECTION B</u>						(average)
S	79.00	(2.18x2.19)	4.77	550	115	
	77.40	(2.12x2.15)	4.55	500	110	112.5
A	91.20	(2.3 x2.3)	5.3	533	98.50	98.50
B	70.90	(2.05x2.80)	5.74	430	75.00	
	77.30	(2.08x2.14)	4.45	460	103.20	89.1
C	79.55	(1.53x2.22)	3.39	290	85.50	85.50
D	87.75	(1.80x2.67)	4.80	550	114.50	
	79.00	(1.82x2.62)	4.76	420	88.20	101.75
E	88.30	(1.92x2.61)	4.94	530	117.20	117.20

TABLE OF MECHANICAL DATA & PROPERTIES (Tensile)
 OF TEST BODIES.
 CONE 8 (1,250°C)

BODY	W_f	DIMENSION A average cm.	AREA cm. ²	LOAD kg.	STRESS kg/cm. ²	REMARKS.
						(average)
<u>SECTION A</u>						
S 5K	88.10	(2.15x2.25)	4.83	557	115	
	91.60	(2.10x2.25)	4.72	484	103	109.00
S 10K	84.00	(2.10x2.28)	4.80	392	81.7	
	84.50	(2.05x2.20)	4.52	356	78.7	80.20
S 15K	90.07	(2.19x2.25)	4.93	414	84	
	88.30	(2.10x2.26)	4.74	372	78.5	81.25
S 5BA	86.10	(2.20x2.22)	4.84	510	105	
	89.80	(2.28x2.28)	5.20	604	116	110.50
S 10BA	88.80	(2.29x3.05)	6.90	290	42.5	
	94.70	(2.18x2.35)	5.12	222	43.4	42.95
S 15BA	88.90	(2.20x2.40)	5.30	400	75.5	
	85.40	(2.20x2.20)	4.84	466	96.3	85.90
S 5FL	78.10	(2.15x2.60)	5.60	260	46.4	
	78.75	(2.20x2.28)	6.15	560	91.3	68.85
S 10FL	90.09	(2.20x2.30)	5.06	487	96.2	
	91.20	(2.28x2.28)	5.20	440	71.5	83.85
S 15FL	93.10	(2.15x2.20)	4.73	620	131	
	96.70	(2.20x2.20)	4.83	541	114	122.50
S 5FP	84.70	-	-	-	-	Excessive Deformed
	83.20	-	-	-	-	Excessive Deformed
S 10FP	90.05	(2.20x2.28)	5.02	440	87.7	
	89.00	(2.20x2.25)	4.98	478	96	91.85
S 15FP	85.00	(2.10x2.15)	4.51	610	135	
	90.03	(2.20x2.42)	5.33	596	112	123.50

TABLE OF MECHANICAL DATA & PROPERTIES (Tensile)
 OF TEST BODIES.
 CONE 8 (1,250°C)

BODY	W_f	DIMENSION A average cm.	AREA cm. ²	LOAD kg.	STRESS kg/cm. ²	REMARKS.
						(average)
<u>SECTION A</u>						
S 5MC	83.90	(2.15x2.20)	4.74	367	70.2	
	82.60	(2.10x2.30)	4.83	245	50.7	60.45
S 10MC	73.30	(2.10x2.10)	4.42	330	68.9	
	67.50	(2.05x1.65)	3.38	230	68.2	68.55
S 15MC	74.20	(2.00x2.10)	4.40	470	107	
	73.00	(2.00x2.55)	5.10	557	109	103.00
<u>SECTION B</u>						
S	90.70	(2.20x2.30)	5.05	548	108	
A	91.30	(2.20x2.29)	5.02	503	100	
B	81.10					
C	81.70	(2.15x2.28)	4.90	436	89	
D	79.60	(2.10x3.05)	6.40			
E	90.05	(2.48x2.50)	6.20	304	49	

TABLE OF MECHANICAL DATA & PROPERTIES (Tensile)

OF TEST BODIES.
CONE 6A (1,200°C)

BODY	W_f	DIMENSION	AREA cm ²	LOAD kg.	STRESS kg/cm ²	REMARKS.
<u>SECTION A</u>						
S 5K	88.40	(2.20x2.30)	5.06	440	87.20	
	90.00	(2.17x2.30)	5.13	350	68.40	77.80
S 10K	84.90	(2.12x2.13)	4.51	350	77.40	
	87.60	(2.12x2.21)	4.68	580	124.00	100.7
S 15K	93.10	(2.32x2.40)	5.16	460	89.20	
	90.80	(2.18x2.28)	4.96	440	92.80	91.00
S 5BA	90.90	(2.39x2.39)	5.70	320	56.20	
	87.70	(2.28x2.23)	5.08	460	90.05	
S 10BA	80.90	(2.33x2.18)	5.08	270	53.20	
	88.70	(2.17x2.35)	5.10	290	56.90	
S 15BA	86.30	(2.18x2.31)	5.05	390	77.04	
	89.60	(2.28x2.30)	5.24	370	70.60	
S 5FL	81.90	(2.15x2.81)	5.76	460	79.90	
	120.20	(2.23x2.32)	5.17	500	96.80	
S 10FL	90.50	(2.20x2.24)	4.93	480	97.40	
	90.90	(2.20x2.21)	4.88	575	117.80	
S 15FL	93.60	(2.25x2.25)	5.06	440	86.90	
	91.30	(2.18x2.20)	4.79	530	110.01	
S 5FP	82.10	(2.17x2.28)	4.94	440	89.01	
	85.40	(2.55x2.16)	5.51	890	16.30	
S 10FP	79.60	(2.13x2.20)	4.68	580	124.00	
	91.31	(2.18x2.20)	4.80	490	102.00	
S 15FP	89.10	(2.28x2.30)	5.24	490	93.60	
	87.00	(2.18x2.42)	5.27	520	98.80	

TABLE OF MECHANICAL DATA & PROPERTIES (Tensile)
OF TEST BODIES.
CONE 6A (1,200°C)

BODY	W_f	DIMENSION	AREA cm ²	LOAD kg.	STRESS kg/cm ²	REMARKS
<u>SECTION A</u>						
S 5MC	83.40	(2.35x2.40)	5.64	260	46.20	
	83.50	(2.30x2.44)	5.61	220	39.20	
S 10MC	74.00	(2.00x2.06)	4.12	280	68.00	
	74.10	(2.00x2.08)	4.16	480	35.20	
S 15MC	66.80	(1.87x2.14)	4.00	350	87.50	
	88.50	(2.38x2.20)	5.24	200	38.20	
<u>SECTION B</u>						
S	89.40	(2.35x2.50)	5.40	660	122.0	
	88.80	(2.22x2.20)	4.93	540	110.30	
A	88.60	(2.12x2.15)	4.56	695	175.0	
	92.23	(2.20x2.13)	4.58	650	142	
B	74.47	(2.57x2.12)	5.45	225	41.21	
	75.50	(2.10x1.96)	4.12	228	56.30	
C	80.00	(2.05x2.02)	4.11	495	120.2	
	87.70	(2.11x2.31)	4.88	350	71.75	
D	78.80	(2.05x2.10)	4.21	635	150.8	
	78.70	(2.01x2.88)	5.79	490	84.75	
E	87.10	(2.15x2.30)	4.95	410	82.10	
	85.80	(2.5 x2.01)	5.10	300	58.75	

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 9 (1,280°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_g^d lKC	U_d KV	E_d KV/mm.	T mm.	β	ϵ_r Average	E_d Average
SECTION A											
S5K	22.20	69.00	6.56	10.05	0.13	15.00	6.75	2.61	4.50		
	44.50	37.00	3.40	10.79	0.24	55.00	14.43	5.20	2.57		
	59.40	32.80	2.53	12.95	0.33	46.00	8.00	7.00	1.75		
	84.30	-	-	-	-	51.00	15.40	4.32	3.02	11.26	11.15
S10K	22.00	79.00	9.31	8.46	0.32	36.00	20.88	1.88	5.80		
	46.10	---- Excessive deform			-----	27.00	7.21	5.00	2.67		
	66.50	24.25	2.36	10.35	0.22	46.00	7.13	7.50	1.55		
	71.60	-	-	-	-	37.00	16.50	2.67	4.45	9.40	12.68
S15K	22.70	71.00	7.08	10.01	0.24	37.00	17.20	2.50	4.65		
	48.60	46.00	3.32	13.88	0.26	51.00	12.50	5.50	2.45		
	59.50	58.00	2.30	25.20	0.57	56.00	7.84	7.70	1.40		
	72.00	-	-	-	-	61.00	26.20	2.78	4.30	16.36	15.97
S5EA	23.50	81.00	5.71	14.18	0.14	46.00	17.95	3.15	3.90		
	48.50	38.00	3.54	10.71	0.22	50.00	20.01	3.00	4.05		
	65.00	31.00	2.36	13.12	0.32	57.00	8.84	7.50	1.55		
	73.00	-	-	-	-	34.00	15.60	2.60	4.50	16.67	15.60

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
CONE 9 (1,280°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} l KC.	U_d KV	E_d KV/mm	T mm.	β	ϵ_r Average	E_d Average
S10BA	22.50	59.00	7.08	8.33	0.20	40.00	17.40	2.74	4.35	12.69	13.92
	46.50	51.00	3.61	14.11	0.28	54.00	14.70	4.90	2.72		
	68.30	36.00	2.30	15.65	0.37	57.00	8.55	7.70	1.50		
	85.60	-	-	-	-	52.00	15.01	3.48	3.45		
S15BA	24.50	54.00	4.78	11.29	0.33	10.00	3.45	3.11	3.45	11.02	3.33
	45.00	32.00	3.05	10.49	0.31	30.00	6.90	5.80	2.30		
	60.60	27.80	2.46	11.30	0.33	18.00	2.97	7.20	1.65		
	72.20	-	-	-	-	19.00	4.46	4.66	2.35		
S5FL	22.40	55.00	7.38	7.46	0.20	44.00	19.60	2.67	4.45	13.49	14.95
	42.10	36.00	3.69	9.76	0.12	56.00	15.50	4.80	2.77		
	66.30	51.40	2.21	23.25	0.40	58.00	6.38	8.00	1.10		
	57.90	-	-	-	-	33.00	18.50	1.96	5.60		
S10FL	25.00	57.00	6.32	9.01	0.13	52.00	22.01	2.84	4.25	9.81	15.80
	43.80	30.00	3.69	8.13	0.16	50.00	13.85	4.80	2.77		
	65.80	29.00	2.36	12.29	0.24	56.00	8.68	7.50	1.55		
	63.70	-	-	-	-	44.00	18.50	2.86	4.20		
S15FL	25.20	51.00	6.10	8.36	0.15	43.00	17.85	2.91	4.15	9.94	15.90
	46.00	36.00	3.54	10.17	0.18	51.00	12.62	5.00	2.67		
	61.20	29.00	2.56	11.30	0.20	60.00	10.80	6.90	1.80		
	72.20	-	-	-	-	56.00	21.00	3.28	3.75		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
CONE 9 (1,280°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} kC	U_d KV	E_d KV/mm	T mm.	β	ϵ_r Average	E_d Average
S5FP	21.40	74.00	8.85	8.36	0.21	39.00	21.40	2.00	5.50	9.17	16.30
	44.60	48.10	6.11	7.86	0.28	54.00	14.70	4.90	2.72		
	64.10	29.80	2.56	11.30	0.13	55.00	9.90	6.90	1.80		
	68.60	-	-	-	-	56.00	18.50	3.83	3.30		
S10FP	21.40	69.00	8.85	7.80	0.16	40.00	22.00	2.00	5.50	5.78	16.72
	45.88	34.00	6.11	5.56	0.03	46.00	13.50	4.90	2.72		
	66.00	24.20	2.39	10.10	0.06	66.00	9.90	7.40	1.50		
	65.50	-	-	-	-	46.00	21.40	2.50	4.65		
S15FP	23.20	61.20	7.09	8.65	0.17	41.00	19.25	2.50	4.70	17.68	15.50
	46.10	40.00	3.68	11.20	0.21	54.00	14.95	4.80	2.77		
	65.90	79.40	2.39	33.20	0.58	49.00	7.35	7.40	1.50		
	69.30	-	-	-	-	51.00	20.40	3.03	4.00		
S5MC	19.80	54.00	8.85	6.10	0.24	38.00	20.90	2.00	5.50	18.93	21.00
	59.77	69.50	2.60	26.30	0.65	-	-	6.80	1.85		
	40.50	92.00	3.76	24.40	0.78	44.00	12.81	4.70	2.82		
	55.70	-	-	-	-	54.00	29.40	2.05	5.45		
S10MC	20.70	59.00	7.70	7.66	0.17	42.00	20.80	2.30	4.95	13.16	18.30
	41.00	49.50	4.21	11.76	0.39	-	-	4.20	3.07		
	51.50	54.50	2.64	20.06	0.53	-	-	6.70	1.95		
	60.70	-	-	-	-	31.00	15.80	2.23	5.10		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 9 (1,280°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	$T_g d$ lKC	U_d KV	E_d KV/mm	T mm.	β	ϵ_r Average	E_d Average
S15MC	19.40	68.10	0.28	9.93	0.69	34.00	20.60	1.80	6.05	13.56	20.90
	36.00	76.20	4.54	16.80	0.73	50.00	18.35	3.90	3.27		
	55.10	38.00	2.72	13.95	0.40	-	-	-	-		
	47.75	-	-	-	-	28.00	23.65	1.34	8.45		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 9 (1,280°C)

BODY	W _f gm	C _x pf	C _o pf	$E = \frac{C_x}{C_o}$	T _{g d} lKC	U _d KV	E _d KV/mm	T mm.	β	ε _r Average	E _d Average
<u>SECTION B</u>											
S	21.30	53.80	8.85	6.07	0.04	41.00	22.80	2.00	5.55	37.00	15.35
	39.20	32.30	3.59	9.00	0.10	49.00	13.58	4.80	2.77		
	51.50	43.00	2.53	17.00	0.32	53.00	9.28	7.00	1.75		
	61.90	-	-	-	-	37.00	15.55	2.97	4.20		
A	23.20	52.20	7.07	7.40	0.05	40.00	18.62	2.50	4.65	10.18	14.80
	51.80	32.00	3.34	9.59	0.15	56.00	14.50	5.30	2.55		
	59.80	32.20	2.36	13.57	0.24	52.00	8.30	7.30	1.60		
	68.60	-	-	-	-	42.00	17.68	2.78	4.27		
B	23.72	73.00	8.05	9.06	0.35	30.00	15.40	2.20	5.12	13.52	13.40
	66.90	34.00	2.53	13.45	0.31	46.00	9.07	7.00	1.75		
	45.10	56.00	3.10	18.05	0.48	38.00	20.29	5.70	5.35		
	67.00	-	-	-	-	25.00	9.40	2.80	3.75		
C	71.23	77.00	2.08	37.02	0.64	46.00	3.68	8.50	0.80	23.45	7.78
	23.20	93.80	6.10	15.39	0.38	25.00	10.80	2.90	4.15		
	55.70	53.00	2.95	17.95	0.53	40.00	8.80	6.00	2.20		
	57.40	-----		Cannot reading		-----					
D	28.90	44.00	6.11	7.20	0.15	36.00	16.20	2.90	4.50	7.20	16.20
	51.80	-----		Excessive deformed		-----					
	61.30	-----		Cannot reading		-----					

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 9 (1,280°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} lKC	U_d KV	E_d KV/mm	T mm.	β	ϵ_r Average	E_d Average
E	45.70	54.10	3.61	12.22	0.38	30.00	5.14	4.90	2.72	13.47	18.40
	66.75	36.20	2.46	14.71	0.34	47.00	8.00	7.20	1.70		
	61.90	-	-	-	26.00	75.00	42.00	1.93	5.60		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
CONE 8 (1,250°C)

BODY	W _f gm	C _x pf	C _o pf	E = $\frac{C_x}{C_o}$	T _{g d} kC	U _d KV	E _d KV/mm	T mm.	β	Er Average	E _d Average
<u>SECTION A</u>											
5K	20.60	80.00	7.51	11.18	0.18	29.00	12.13	2.36	4.81	15.05	12.76
	44.60	65.80	3.48	18.91	0.42	37.00	9.70	5.09	2.62		
	72.20	-	7.03	-	-	36.00	16.55	2.52	4.60		
10K	25.60	77.80	5.25	14.81	0.34	28.00	9.52	3.37	3.40	14.75	9.23
	43.90	52.00	3.54	14.70	0.38	30.00	7.85	5.00	2.62		
	49.40	-	5.46	-	-	39.00	10.32	3.24	3.77		
15K	19.30	68.00	7.66	8.87	0.30	30.00	14.85	2.31	4.95	10.11	13.50
	49.80	40.00	3.52	11.35	0.26	31.00	8.12	5.02	2.62		
	63.00	-	9.79	-	-	29.00	17.55	1.81	6.05		
5BA	20.30	77.00	7.60	10.12	0.26	33.00	16.25	2.33	4.93	12.05	14.52
	44.30	49.00	3.53	13.89	0.34	42.00	11.00	5.02	2.62		
	62.30	-	9.84	-	-	27.00	16.32	1.80	6.05		
10BA	24.20	60.00	7.10	8.45	0.24	34.00	15.81	2.50	4.65	10.90	13.51
	41.80	45.00	3.37	13.35	0.28	48.00	12.22	5.26	2.55		
	81.10	-	4.61	-	-	38.00	12.52	3.84	3.30		
15BA	20.60	64.00	7.10	9.01	0.24	16.00	7.45	2.50	4.65	9.13	7.37
	41.90	33.00	3.57	9.25	0.25	27.00	7.16	4.96	2.65		
	75.20	-	4.49	-	-	24.00	7.80	3.94	3.25		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 8 (1,250°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} lKC	U_d KV	E_d KV/mm	r mm.	β	ϵ_r Average	E_d Average
5FL	19.60	92.00	7.65	12.01	0.23	26.00	12.89	2.31	4.95	13.50	13.30
	43.60	53.00	3.54	14.98	0.36	49.00	12.82	5.00	2.62		
	69.30	-	4.65	-	-	43.00	14.19	3.81	3.30		
10FL	19.50	73.00	8.45	8.69	0.25	28.00	14.85	2.10	5.30	10.29	16.45
	41.90	45.00	3.78	11.90	0.32	44.00	11.30	4.69	2.57		
	59.10	-	11.55	-	-	33.00	23.20	1.53	7.05		
15FL	22.70	72.50	6.64	10.91	0.28	27.00	12.01	2.67	4.45	10.75	14.14
	42.00	38.00	3.59	10.59	0.28	49.00	13.31	4.93	2.72		
	63.40	-	9.53	-	-	29.00	17.11	1.86	5.90		
5FP	20.00	99.00	8.85	11.18	0.33	26.00	14.30	2.00	5.50	12.42	14.69
	41.80	49.00	3.59	13.65	0.29	46.00	12.50	4.94	2.72		
	62.50	-	7.47	-	-	36.00	17.29	2.37	4.80		
10FP	24.80	56.50	7.08	7.97	0.26	37.00	17.20	2.50	4.65	10.66	14.90
	42.50	47.00	3.52	13.35	0.26	47.00	12.31	5.04	2.62		
	36.20	-	8.80	-	-	29.00	15.21	2.11	5.25		
15FP	23.30	80.00	6.61	12.10	0.21	42.00	18.70	2.68	4.45	12.61	16.61
	45.00	45.00	3.43	13.11	0.26	46.00	12.02	5.17	2.60		
	60.40	-	10.85	-	-	29.00	19.13	1.66	6.60		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 8 (1,250°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} kC	U_d KV	E_d KV/mm	T mm.	β	ϵ_r Average	E_d Average
5MC	23.20	68.00	7.70	8.83	0.30	36.00	17.81	2.30	4.95	10.42	16.86
	42.10	48.20	4.02	12.01	0.34	43.00	12.75	4.40	2.97		
	58.40	-	11.11	-	-	31.00	20.02	1.59	6.60		
10MC	25.50	60.00	7.90	7.60	0.24	35.00	14.40	2.24	4.40	9.15	13.83
	40.50	42.00	3.94	10.69	0.26	43.00	12.60	4.50	2.93		
	68.40	-	6.11	-	-	35.00	14.51	2.90	4.15		
15MC	18.50	74.00	8.75	8.45	0.28	36.00	19.80	2.00	5.50	10.45	18.25
	49.90	34.00	2.73	12.45	0.36	51.00	10.05	6.50	2.05		
	55.80	-	13.72	-	-	30.00	24.90	1.29	8.30		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 8 (1,250°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} lKC	U_d KV	E_d KV/mm	T mm.	β	ϵ_r Average	E_d Average
<u>SECTION E</u>											
S	14.90	62.00	7.70	8.05	0.15	38.00	18.81	2.30	4.95		
	29.10	39.00	3.14	12.41	0.23	44.00	12.75	5.64	2.90		
	59.40	-	7.77	-	-	39.00	16.59	2.28	4.25	10.23	16.05
A	46.10	46.00	3.41	9.60	0.22	46.00	12.50	4.90	2.72		
	69.90	-	2.27	-	-	44.00	7.04	7.80	1.60	9.60	9.77
B	16.10	63.00	8.75	7.20	0.18	16.00	8.80	2.00	5.55		
	67.00	36.00	2.50	14.40	0.36	48.00	8.16	7.10	1.70		
	26.60	49.00	3.94	12.42	0.31	36.00	10.04	4.50	2.90	11.34	9.00
C	29.30	60.00	6.55	9.17	0.20	34.00	14.61	2.70	4.30		
	53.20	38.00	3.54	11.01	0.23	44.00	11.50	5.00	2.62		
	82.30	-	4.81	-	-	26.00	8.58	3.68	3.30	10.09	11.56
D	22.60	65.00	8.75	7.44	0.21	27.00	14.85	2.00	5.50		
	46.10	45.30	4.02	11.25	0.26	47.00	13.95	4.40	2.97		
	56.00	-	7.64	-	-	47.00	23.22	2.32	4.95	9.35	14.00
E	45.50	32.00	3.69	8.67	0.15	30.00	8.25	4.80	2.75		
	77.70	-	4.84	-	-	25.00	8.64	3.66	3.45	8.67	8.45

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 6 (1,200°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} lKC	U_d KV	E_d KV/mm.	T mm.	β	ϵ_r Average	E_d Average
<u>SECTION A</u>											
5K	20.40	85.80	8.45	10.15	0.34	30.00	16.95	0.21	5.65	20.48	11.82
	43.70	129.80	3.77	34.20	1.40	50.00	13.09	0.47	2.62		
	66.30	42.00	2.46	17.10	0.53	32.00	5.44	0.72	1.70		
10K	21.70	63.80	8.45	7.55	0.63	20.00	11.30	0.21	5.65	14.59	8.50
	45.10	61.00	3.77	16.20	0.50	44.00	11.51	0.47	2.61		
	64.90	49.80	2.49	20.01	0.55	16.00	2.72	0.71	1.70		
15K	22.60	71.00	8.85	8.02	0.29	36.00	19.80	0.20	5.50	13.54	12.46
	45.10	54.00	3.85	14.02	0.36	49.00	14.00	0.46	2.86		
	59.50	47.80	2.57	18.60	0.49	20.00	3.60	0.69	1.80		
5BA	22.50	90.00	7.38	12.20	0.38	43.00	20.03	0.24	4.80	11.62	13.34
	46.60	48.10	5.21	9.22	0.36	46.00	17.01	0.34	3.70		
	68.40	31.80	2.36	13.45	0.44	20.00	3.00	0.75	1.50		
10BA	21.50	80.00	8.85	9.04	0.31	25.00	13.75	0.20	5.50	12.71	11.33
	47.70	52.00	4.12	12.61	0.40	53.00	16.10	0.43	3.02		
	65.20	42.30	2.57	16.49	0.55	23.00	4.14	0.69	1.80		
15BA	24.30	68.30	7.09	9.63	0.38	20.00	9.41	0.25	4.70	56.56	6.43
	42.30	53.00	3.77	14.07	0.44	25.00	7.03	0.47	2.81		
	59.20	345.00	2.36	146.00	1.80	19.00	2.85	0.75	1.50		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
CONE 6 (1,200°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_g^d kC	U_d KV	E_d KV/mm	T mm.	β	E_r Average	E_d Average
5FL	23.90	69.00	8.85	7.70	0.46	17.00	9.36	0.20	5.50	10.43	5.02
	26.40	127.80	3.69	34.60	2.30	10.00	2.72	0.48	2.72		
	62.50	48.00	2.33	18.98	0.52	17.00	2.98	0.70	1.75		
10FL	25.00	77.00	6.10	12.61	0.65	16.00	6.72	0.29	4.20	14.02	6.67
	44.20	43.00	3.85	11.17	0.42	26.00	10.00	0.46	3.85		
	63.80	47.00	2.57	18.30	0.58	17.00	3.30	0.69	1.80		
15FL	15.30	-	Excessive deform			27.00	27.00	-	-	14.90	13.79
	44.30	48.00	3.93	12.21	0.35	39.00	11.39	0.45	2.92		
	63.60	42.00	2.39	17.60	0.44	20.00	3.00	0.74	1.50		
5FP	21.10	80.00	8.85	9.04	0.34	14.00	7.71	0.20	5.50	36.54	12.05
	52.70	93.00	3.54	26.20	0.95	17.00	4.45	0.50	2.62		
	63.40	165.00	2.22	74.40	0.30	24.00	24.00	0.80	1.00		
10FP	21.10	87.00	8.05	11.90	0.32	41.00	20.01	0.23	4.95	14.81	12.35
	44.10	58.00	3.93	14.75	0.40	33.00	9.35	0.45	2.92		
	62.00	45.00	2.53	17.80	0.40	44.00	7.69	0.70	1.75		
15FP	22.10	68.00	9.85	6.90	0.26	40.00	24.20	0.18	6.05	14.33	13.87
	62.30	65.00	2.57	25.30	0.46	54.00	9.72	0.69	1.80		
	44.50	59.80	5.54	10.80	0.39	20.00	7.71	0.32	3.85		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
CONE 6 (1,200°C)

BODY	W_f pf	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} lKC	U_d KV	E_d KV/mm	T mm.	β	ϵ_r Average	E_d Average
5MC	19.80	84.00	8.85	6.10	0.24	37.00	20.05	0.20	5.55	18.26	9.15
	40.50	92.00	3.76	22.40	0.78	12.00	3.37	0.47	2.81		
	59.77	69.50	2.60	26.30	0.65	22.00	4.04	0.68	1.85		
10MC	41.00	49.50	4.21	11.76	0.39	25.00	9.25	0.42	3.07	13.16	10.04
	20.70	59.00	7.70	7.66	0.17	26.00	12.88	0.23	4.95		
	51.50	54.50	2.64	20.06	0.53	42.00	7.99	0.67	1.90		
15MC	19.40	68.10	9.93	6.86	0.28	16.00	9.65	0.18	6.05	12.54	8.17
	36.00	76.20	4.54	16.80	0.73	18.00	5.89	0.39	3.27		
	55.10	38.00	2.72	13.95	0.40	45.00	8.99	0.65	1.97		
<u>SECTION B</u>											
S	20.80	68.30	7.09	9.63	0.24	16.00	7.52	2.53	4.70	10.26	11.93
	43.00	54.20	3.45	12.81	0.36	50.00	13.85	4.84	2.77		
	57.60	28.00	3.00	9.33	0.36	24.00	5.28	5.99	2.20		
	56.30	-	10.04	-	-	33.00	21.10	1.70	6.40		
A	21.20	92.00	7.18	12.71	0.28	25.00	11.61	2.50	4.65	24.54	11.50
	42.20	119.00	3.58	33.30	1.14	24.00	7.15	4.94	2.98		
	61.60	68.60	2.49	27.60	0.47	49.00	9.55	7.13	1.95		
	56.50	-	11.10	-	-	26.00	17.70	1.59	6.80		

TABLE OF ELECTRIC DATA & PROPERTIES OF TEST BODIES
 CONE 6 (1,200°C)

BODY	W_f gm	C_x pf	C_o pf	$E = \frac{C_x}{C_o}$	T_{gd} lKC	U_d KV	E_d KV/mm.	T mm.	β	ϵ_r Average	E_d Average
B	24.70	57.00	6.81	8.36	0.12	21.00	9.46	2.60	4.50	6.96	15.97
	65.60	53.00	2.43	21.80	0.46	40.00	6.59	7.28	1.65		
	67.00	35.00	2.47	14.18	0.29	52.00	8.85	7.18	1.70		
	72.30	-	9.19	-	-	39.00	39.00	1.93	-		
C	25.00	47.00	6.44	7.30	0.16	44.00	18.91	2.75	4.30	15.20	9.89
	63.30	53.00	2.42	21.90	0.47	62.00	10.02	7.31	1.60		
	63.60	-	9.95	-	-	16.00	9.69	1.78	6.05		
	93.20	29.00	1.77	16.40	0.28	18.00	0.94	10.01	0.52		
D	25.80	54.00	5.79	9.34	0.23	25.00	9.92	3.06	3.97	8.95	11.80
	57.40	31.00	2.51	3.32	0.15	50.00	7.10	7.06	1.42		
	59.50	-	12.75	-	-	38.00	29.40	1.39	7.75		
	56.40	42.00	2.96	14.20	0.22	52.00	11.42	5.99	2.20		
E	21.60	75.00	7.29	10.30	0.17	33.00	15.81	2.43	4.80	13.46	9.44
	64.30	43.00	2.39	18.00	0.50	20.00	3.10	7.41	1.55		
	65.70	35.00	2.90	12.08	0.20	56.00	9.63	7.11	1.72		
	62.30	-	9.37	-	-	16.00	9.24	1.89	5.77		