

FLY ASH (CLASS F)	
STANDARD	ASTM C-618
SiO ₂ + Al ₂ O ₃ + Fe ₂ O ₃	70% Min
+45 Microns	34% Max
LOI	6% Max
Moisture	3% Max
SO ₃	4% Max
CaO	2% Max
MgO	5% Max
Total Chlorides	0.5% Max
Na ₂ O	1% Max
Free SiO ₂	50% Max
Strength Activity Index (N/mm ²) With Portland Cement at 7 Days Min	75% Min
Water requirement (% of control)	105% Max
Soundness (Autoclave)mm	0.8% Max

ANALYSIS - FLY ASH (CLASS F) – ASTM C-618

SI No	Parameters	Results (%)	Actuals	Standards
1	SiO ₂ + Al ₂ O ₃ + Fe ₂ O ₃	92.77	90% Min	ASTM C – 618
2	SiO ₂	60.52	60% Min	ASTM C – 618
3	LOI (at 750°C)	0.41	3% Max	ASTM C – 618
4	+45 Microns	28.17	34% Max	ASTM C – 618
5	CaO	0.46	2% Max	ASTM C – 618
6	MgO	0.59	2% Max	ASTM C - 618
7	Na ₂ O ₃	0.51	1% Max	ASTM C – 618
8	SO ₃	0.092	3% Max	ASTM C – 618
9	Strength Activity Index (N/mm ²) With Portland Cement at 7 Days Min	94.00	75% Min	ASTM C – 618
10	Water requirement (% of control)	102.90	105% Max	ASTM C – 618
11	Soundness (Autoclave)mm	0.014	0.8% Max	ASTM C – 618

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ANALYSIS - FLY ASH (CLASS F) – BS 3892

SI No	Parameters	Results (%)	Actuals	Standards
1	SiO ₂ + Al ₂ O ₃ + Fe ₂ O ₃	92.77	90% Min	BS 3892
2	SiO ₂	60.52	60% Min	BS 3892
3	LOI (at 750°C)	0.41	3% Max	BS 3892
4	+45 Microns	12%	12% Max	BS 3892
5	CaO	0.46	2% Max	BS 3892
6	MgO	0.59	2% Max	BS 3892
7	Na ₂ O ₃	0.51	1% Max	BS 3892
8	SO ₃	0.092	3% Max	BS 3892
9	Strength Activity Index (N/mm ²) With Portland Cement at 7 Days Min	94.00	75% Min	BS 3892
10	Water requirement (% of control)	102.90	105% Max	BS 3892
11	Soundness (Autoclave)mm	0.014	0.8% Max	BS 3892

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