

STERLING ASH



About Our Sterling Ash:

Sterling Ash is of class "F" Fly Ash Complying ASTM C 618 / BS 3892 / IS 3812 that is preferred all around the world due to its fundamental concrete uses. The Fly Ash is a form of synthetic pozzolan, mainly engineered and to accomplish the highest level of performance on the major concrete and cement applications. It substitutes the substantial ratio of cement in the construction, varying from 20% to 35% based on the nature of the building. It has a plasticizing impact of the concrete, which reduces the need for water and delivers similar workability as provided by the portland cement. Moreover, it reduces the need for sand up to 3% in the final mixture.



Capitalizing on our advanced infra-structural amenities, Elsons Corporations arisen as an industry leader associated with production of large quantity of class F Fly Ash. We are one of the major fly ash suppliers to Industries like Ready Mix Concrete, Cement Plants, Bricks, Blocks & Pavers. And Building Constractions, Dams, Power Plants, etc.

We have our own fleet of trucks, bulkers & highly trained staff for quality maintenance & round the clock operations. We can supply Fly Ash of different quality and properties as per your specification at very competitive rates, in bulk carriers, Jumbo / Small Bags.

PROCESS:

We understand the importance of processing of material to categorize in diverse grades. The Fly Ash is readily available, according to the requirement to the clients in Customized Packing Material, large stacks carrying up to 1 mt and free stock in 20-50mt road tankers (bulklers). We own our private system of supply for doorstep delivery to our client. In a rapidly shifting business setting, we are all set to fulfill the needs of our clients.

QUALITY:

Sterling Ash is a finely grounded material with a seamless globular form of specks. The Fly Ash concrete visually seems additionally consistent; generally, the fly ash concrete has a relatively low requirement of fine aggregate than pure ordinary Portland cement (OPC) for the production of a high performing mixture. Here are the further physical and chemical attributes of the Sterling ash:



PHYSICAL QUALITIES:

- ◆ Refinement by Blaine's Permeability technique
- ◆ Refinement by Preservation on 45 microns nsifter
- ◆ Humidity Content
- ◆ Highly Feasible
- ◆ Compressive Power

CHEMICAL QUALITIES:

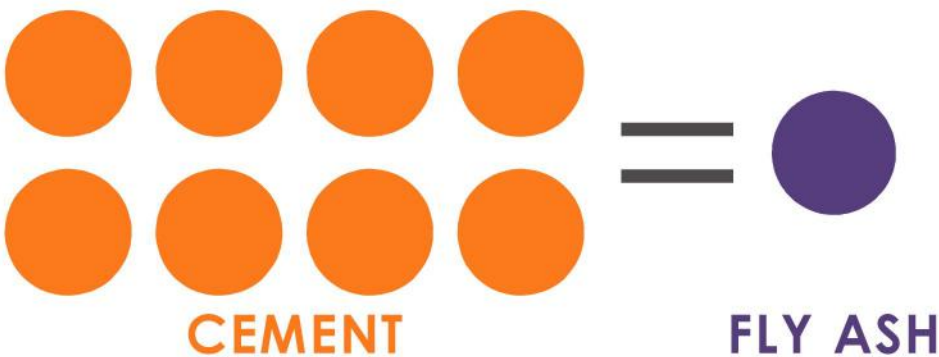
- ◆ Loss on Ignition (Unburnt Carbon Component)
- ◆ Silica Component
- ◆ Reactive Silica Component
- ◆ Whole Chlorides
- ◆ Alumina + Iron (III) oxide (Fe_2O_3) + silica compound
- ◆ Magnesium oxide (MgO) component
- ◆ Sulphuric Anhydride (SO_3) component
- ◆ Sodium Oxide (Na_2O) component
- ◆ Calcium Oxide (CaO) component



ADVANTAGES:

The classified Sterling Ash substantially reduces the volume of unburnt specks resulting in an almost carbon free substance. Supreme reactivity is accomplished by eliminating the low reactive crystalline Fly Ash specks and by maximizing the specific exterior of the ultimate product. The utilization of the advanced Sterling Ash substance ensures a remarkable decrease in the requirement of water for mixing and allows for advanced improvement of strength, resulting in higher replacement ratios that are never possible with the inclusion of ordinary cement. Some of the advantages are:

- ◆ Enhanced Workability
- ◆ Better Stability
- ◆ Low Heat of Hydration
- ◆ Cost effectiveness
- ◆ Fly Ash mixed cement structure lasts 150 years





Product Specifications

CHARACTERISTICS	PRODUCT RESULT %	REQUIREMENTS AS PER ASTM: C618
CHEMICAL PROPERTIES		
SiO ₂ + Al ₂ O ₃ + Fe ₂ O ₃ %	82.0 - 90.0*	70.0 min
Silicon Dioxide SiO ₂ %	51.0 - 55.0*	N.S.
Magnesium Oxide MgO %	1.0 - 2.0*	N.S.
Total Sulfur tri oxide SO ₃ %	0.68	5.0 Max
Chlorides %	0.03	N.S.
Loss on Ignition %	4.44	6.0 Max
Calcium Oxide (Cao)	6.31	N.S.
Alkali Eq	1.36	N.S.
Water Soluble Phosphate P ₂ O ₅	0.05	N.S.
Free Calcium Oxide	0.31	N.S.
PHYSICAL PROPERTIES		
Initial Setting Time	190 Mins	
Final Setting Time	280 Mins	
Soundness Le - Chatelier Expansion	1.0mm	
Loose Density	0.78 g/cm ³	
Tapped Density	0.85 g/cm ³	
Retention on 45 Micron Sieve%	>30.0	34.0 Max



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