



FLY ASH



What is Fly Ash? —

Fly ash is a byproduct of coal combustion in power plants. When coal is burned, the mineral content within it forms tiny particles that are carried away with the flue gases. These particles are then captured by electrostatic precipitators or filters and collected. Fly ash is the term for this fine, powdery material.

Fly ash has various uses, primarily in the construction industry. It's commonly used as a supplementary cementitious material in concrete. When mixed with cement, it can improve the concrete's workability, strength, and durability. It can also be used in making bricks, blocks, and other building materials, as well as in road construction and embankments.

Utilizing fly ash in these ways helps reduce waste and can make concrete and other products more sustainable, though there are also concerns about the potential for environmental and health impacts if not managed properly.

Technical Specification —

NO	TESTS	TEST METHOD	REQ. AS PER IS 3812(P-1):2013	RESULT	CONFORMITY
A Physical Properties					
01	Fineness, m ² 7/kg	IS: 1727-1967	320Min	329	Yes
02	Lime reactivity-Average Compressive Strength, N/mm ²	IS: 1727-1967	4.5Min	5.8	Yes
A Chemical Properties					
01	Silicon Dioxide (SiO ₂)+Aluminium Oxide (Al ₂ O ₃)+Iron Oxide (Fe ₂ O ₃), % by mass	IS:1727-1967	70Min	76.17	Yes
02	Magnesium Oxide (as MgO), % by mass	IS:1727-1967	5.0Max	2.67	Yes
03	Total Sulphur (as SO3), % by mass	IS:1727-1967	3.0Max	1.68	Yes
04	Total chlorides, % by mass	IS: 4032-1985	0.05Max	0.013	Yes
05	Loss on ignition, % by mass	IS:1727-1967	5.0Max	2.1	Yes



Applications of Fly Ash —

- Ready Mix Concrete
- Cement Manufacturing
- Bricks & Blocks Manufacturing
- Commercial Construction
- Precast Manufacturing
- Industrial construction
- & many more



Advantages of Fly Ash —



Better Workability



Better concrete Finish



Reduces Heat of Hydration



Reduces drying shrinkage cracks



Improves Pump ability



Better bonding



Reduces Risk of Alkali Aggregate reaction



Better coverage area in plaster



Increase long term Strength



Eco Friendly



Cost Effective

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