



## TECHNICAL DATA SHEET

# N-ASH

### GENERAL

N-ASH (pulverised fly ash) is a by – product of coal burning at the thermal power plants. As coal is burned non-combustion mineral impurities in coal evaporates and condense into tony particles of glass almost totally spherical in shapes. The fly ash particles are removed from exhaust stream in bags houses or electrostatic precipitators (ESP) and then stored for later processing

Pozzolanic material made of silica, alumina, iron and calcium. This capability is one of the properties making fly ash a desirable admixture of concrete and cement

### CHEMICAL SPECIFICATION OF N-ASH

<b>SR #</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>N-ASH</b>
1	SiO <sub>2</sub> +Al <sub>2</sub> O <sub>3</sub> +Fe <sub>2</sub> O <sub>3</sub>	% MIN	90
2	SiO <sub>2</sub>	% MIN	55
3	Reactive SiO <sub>2</sub>	% MIN	50
4	CaO	% MAX	1
5	MgO	% MAX	1
6	SO <sub>3</sub>	% MAX	2
7	Alkali as Na <sub>2</sub> O	% MAX	1
8	Total Cl	% MAX	0.05
9	Loss on Ignition	% MAX	2
10	Moisture Content	% MAX	1

### PHYSICAL SPECIFICATION OF N-ASH

<b>SR #</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>N-ASH</b>
1	Specific Surface (Blaine),	Min (M <sup>2</sup> /Kg)	320
2	Fineness on 45 micron Sieve	% Max	25
3	Lime Reactivity	N/mm <sup>2</sup>	4.5

**N-ASH**

N-ASH IS DRY FLY ASH PARAMETERS MATCHING OR BETTER THEN OF ASTM C618 CLASS F WITH FINENESS BELOW 25%

**PACKAGING**

N-ASH AVAILABLE IN FOLLOWING PACKING OPTION

- 1400KG JUMBO BAG WITH LINER
- 1000KGS KG JUMBO BAGS WITHOUT LINER
- 40 KGS BAG

**STORAGE**

SHOULD BE KEPT IN DRY STORAGE. PRODUCT THAT HAVE BE SUBJECTED TO MOISTURE AND ALLOWED TO DRY AGAIN MAY RESULT IN TO INFERIOR PERFORMANCE

**STANDARD SPECIFICATION OF FLY ASH ACCORDING TO DIFFERENT STANDARDS**

<u>NO</u>	<u>PARAMETERS</u>	<u>UNIT</u>	<u>ASTM C618 CLASS F</u>	<u>EN 450</u>	<u>IS 3812</u>
<b><u>CHEMICAL PROPERTIES</u></b>					
1	SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub>	% Min	70.00	70.00	70.00
2	SiO <sub>2</sub>	% Min	NS	NS	35.00
3	Reactive Silica	% Min	NS	25.00	20.00
4	MgO	% Max	NS	4.00	5.00
5	Sulfur as SO <sub>3</sub>	% Max	5.0	3.00	3.00
6	Na <sub>2</sub> O	% Max	NS	5.00	1.50
7	Total Chloride	% Max	NS	0.10	0.05
<b><u>PHYSICAL PROPERTIES</u></b>					
1	Fineness – Specific Surface by Blaine’s Permeability Method	M <sup>2</sup> /kg	NS	NS	320
2	Retained on 45 Micron Sieve	% Max	34	12	34
3	Loss on Ignition	% Max	6	7	5
4	Water Requiriement	%	115	95	NS
5	Lime Reactivity	N/mm <sup>2</sup> Min	NS	NS	4.5
6	Moisture Content	% Max	3.00	NS	2.00
7	Soundness by Autoclave		0.80 %	10mm	0.80%
8	Compressive Strenght at 28 days Of plain Mortar Cement	N/mm <sup>2</sup>	75%	75	80%

## **BENEFITS**

- The most important benefit is reduced permeability to water and aggressive chemicals. Properly cured concrete made with fly ash create a dense product because the size of the pores are reduced. This increases the strength and reduces permeability
- All precast concrete producers can use fly ash to improve quality and durability of their products. Fly ash improves concrete's workability, pumpability, cohesiveness, finish, ultimate strength and durability as well as solves many problems experience with concrete today and all for less cost. However it must be used with care, without adequate knowledge of its use and taking proper precautions, problems can result in mixing, setting time, strength development and durability.



Fly ash



Fly Ash in Jumbo bags

NOTE: The information give on this datasheet is accurate to the best knowledge of Navdeep Trradex. This information is subject to change without notice for latest update or further information or assistance please contact us on email address or internet address or our contact details which are given in this datasheet

NAVDEEP TRRADEX

Sales

(M): +91 9898758855 (O): +91 2717 284260 (F): +91 7940067868

(E): sales@navdeepgroup.com (W): www.navdeepgroup.com