



Class F Fly Ash



PRODUCT DESCRIPTION

Class F fly ash is the most widely used supplementary cementitious material in North American concrete. Its spherical particles improve workability at lower water content, and its pozzolanic reaction with calcium hydroxide densifies the paste over time — giving you lower permeability, better sulfate resistance, and controlled heat of hydration in mass pours.

TYPICAL SPECIFICATIONS

PROPERTY	VALUE	BASIS
Classification	ASTM C618 Class F	Per standard
$\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3$	70.0% minimum	Per standard
Loss on ignition (LOI)	6.0% maximum	Per standard
Fineness, retained on 45 μm sieve	34% maximum	Per standard
Appearance	Fine gray powder	Typical
Specific gravity	2.1 – 2.6 typical	Typical

PRINCIPAL INDUSTRIAL APPLICATIONS

-  **Ready-Mix & Precast Concrete**
Replaces 15–30% of portland cement by mass, improving workability and finishability while reducing permeability and long-term cost per yard.
-  **Oilwell Cementing**
Extends slurry yield and improves the durability of set cement in casing and squeeze operations, particularly where sulfate exposure is a concern.
-  **Mass & Structural Pours**
Controls heat of hydration in thick sections, reducing thermal cracking risk in foundations, mats, and large placements.

PACKAGING & AVAILABILITY

- Pneumatic bulk tanker

HANDLING & STORAGE

Store dry and protected from moisture. Fly ash is a fine respirable dust — standard silica dust-control practices and respiratory protection apply during transfer and handling.

A Safety Data Sheet (SDS) is available for this product on request and should be reviewed before handling.

ORDERING & TECHNICAL SUPPORT

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IMPORTANT NOTICE

The information in this data sheet is provided in good faith and is believed accurate at the date of issue. Values marked "Typical" represent commercial norms and are not a specification; the certificate of analysis for your specific shipment governs. Values marked "Per standard" are requirements of the cited standard. Mix Minerals makes no warranty, express or implied, regarding suitability for any particular application. The user is responsible for determining suitability and for safe handling in accordance with the applicable Safety Data Sheet.