



# Ordinary Portland Fly Ash-Cement CEM II/B-V+SR

## Technical Data Sheet

### SECTION 1 – PRODUCT IDENTIFICATION

**Product Name:** Ordinary Portland Fly Ash-Cement CEM II/B-V+SR

**Manufacturer:** Gulf Cement Company P.S.C

**Manufacturing Location:** Ras Al Khaimah, United Arab Emirates

**Product Type:** Portland Fly Ash Cement – CEM II/B-V+SR 42.5 N (EA)

**Standard / Compliance:** BS EN 450-1, ASTM C618

#### Product Description:

Ordinary Portland Fly Ash-Cement **CEM II/B-V+SR 42.5 N (EA)** is a grey Portland-fly ash cement produced by co-milling cement clinker with **EN 450-1 fly ash** and gypsum. It is characterized by **low heat development, extra low alkali content**, and achieves **28-day compressive strength above 42.5 MPa**, making it suitable for concrete in all exposure classes as per national concrete standards.

### SECTION 2 – INTENDED USES

Ordinary Portland Fly Ash-Cement CEM II/B-V+SR is intended for use in concrete for general construction purposes and for exposure classes according to national regulations on concrete standards.

It is suitable for applications requiring low heat development, improved durability, and reduced alkali content.

Product Name:  
Ordinary Portland Fly Ash-Cement CEM II/B-V+SR

Revision Date:  
01/12/2025



### SECTION 3 – PRODUCT COMPOSITION (GENERAL)

Ordinary Portland Fly Ash-Cement CEM II/B-V+SR is produced by co-milling cement clinker with EN 450-1 fly ash and gypsum.

The product is characterized by low heat development and extra low alkali content.

### SECTION 4 – PRODUCT CHARACTERISTICS & PERFORMANCE

Key characteristics:

- Grey Portland – Fly Ash cement
- Strength class: 42.5 N (EA)
- Reaching a 28-day strength of above 42.5 MPa
- Low heat development
- Extra low alkali content
- Suitable for exposure classes as per national concrete standards



## SECTION 5 – APPLICATIONS

Ordinary Portland Fly Ash-Cement CEM II/B-V+SR can be used in concrete for all purposes and in all environmental classes.

Especially recommended for:

- Ready mixed concrete
- Infrastructure projects (bridges, tunnels, harbors, foundations, etc.)
- Concrete with low heat development
- Concrete with long durability

## SECTION 6 – QUALITY MANAGEMENT & ASSURANCE

The product is manufactured under controlled production conditions to ensure consistent quality and compliance with applicable standards.

## SECTION 7 – TESTING & LABORATORY FACILITIES

Testing and quality control are carried out to ensure compliance with relevant European and international standards.



## SECTION 8 – PACKAGING & SUPPLY

The cement is delivered in bulk and 1500 kg big-bags.

## SECTION 9 – PROJECT REFERENCES

Suitable for general construction and infrastructure projects requiring durable concrete and reduced heat of hydration.

## SECTION 10 – PRODUCT STANDARDS

Ordinary Portland Fly Ash-Cement CEM II/B-V+SR is manufactured according to the requirements in the European standard BS EN 450-1 and ASTM C618.

## SECTION 11 – PRODUCT STANDARDS

### Product Raw Material Composition

Product and Packaging Material	Weight (kg/t)	Renewable content (%)	Consumer use (%)	Country/Region of Origin
Clinker	700 – 850	0	0	UAE
Fly ash	60 – 250	0	0	UAE
Gypsum	0 – 50	0	0	UAE



## MANUFACTURING PROCESS

