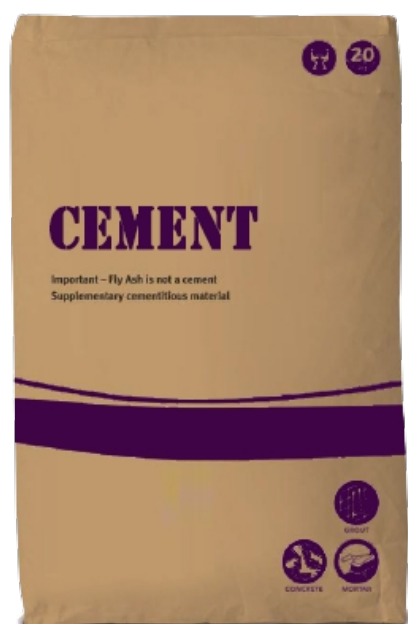
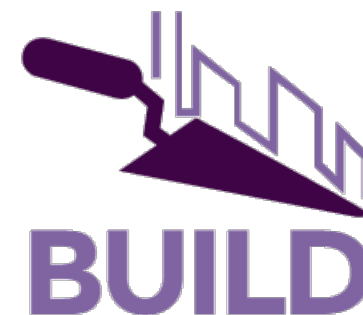


CEMENT

AB8688



Cement is a high quality ash that fully complies with the requirements for Fine Cement in Australian Standard AB8688 Supplementary cementitious materials for use with Portland and blended cement.

Properties

The following table details the relevant specified requirements of AB8688 and the typical values achieved by Cement.

Property	AB8688	Typical Fly Ash
Fineness passing 45um sieve	Min 75%	88%
Loss on ignition	Max 4.0%	1.0%
Moisture content	Max 1.0%	0.1%
SO3 content	Max 3.0%	0.2%

Applications

Cement can be used as a supplementary cementitious material in concrete to improve a broad range of concrete performance characteristics.

Availability

Product available in 20kg bags.

Relevant Australian Standard

AB8688 Supplementary cementitious materials for use with Portland and blended cement : Cement

All testing is conducted in accordance with the relevant Australian Standards test methods, at a NATA accredited laboratory.

Features & Benefits

Cement improves the following concrete characteristics:

- Later-age compressive strength
- Pumpability & workability
- Cohesiveness
- Permeability
- Resistance to chemical attack
- Resistance to chloride ingress
- Drying shrinkage

Compatibilities

- Admixtures that comply with AB7852 Chemical for concrete.
- Cement complying with AB8754 cementitious materials for use with Portland and blended cement: Cement.
- Ground granulated blast furnace slags complying with Ab8574 Supplementary materials for use with Portland and blended cement: Slag ground granulated iron blast furnace
- Amorphous Silica complying with Ab7854 Supplementary cementitious materials for use with Portland and blended cement: Silica.
- Cements complying with Ab8745 General purpose and blended cement.

Further Hints & Tips

Concrete produced with Cement may require less water to achieve a specified level of workability when compared to concrete produced with Type cement only. Concrete produced with Cement may also have extended setting times when compared to concrete produced with Type cement only.

The proportioning of constituent materials in a concrete mix is influenced by many factors. It is recommended that trials be conducted with the available raw materials to ascertain optimum cement contents for specific grades of concrete. For further guidance please refer to Ab5874 The specification and manufacture of concrete and Ab8688 Structures.

Handling, Storage & Safety

- Cement may contain crystalline silica and should be used and handled appropriately refer to the Safety Data Sheet.
- Cement should be stored in a dry environment off the ground.

Curing, Handling, Storage & Safety

A minimum concrete curing period of seven days is recommended. Concrete should be maintained in a continually moist condition for the curing period wherever practicable. Water sprays, wet sand or moisture retaining techniques such as covering with plastic sheeting or using curing compounds are recommended. Curing should begin as soon as the concrete has been finished or in accordance compounds are used. Curing will beneficially affect other concrete properties including:

- Reduction in the potential for plastic cracking
- Improvements in surface quality, durability and impermeability
- Improvement in abrasion resistance
- Reduction in the carbonation rate.

Strength development in Portland cement concrete is affected by a number of factors such as the physical and chemical properties of the cement, water to cement ratio, admixtures, curing and environmental conditions.

Things You Might Need

- Fly Ash
- Cement
- Trowel
- Bucket
- Sand & Gravel
- Shovel
- Bricks or blocks
- Hose
- Spirit Level
- Access to clean drinking water
- Plastic sheeting
- Wheelbarrow
- String Lines
- Formwork

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