

GENERAL PURPOSE CEMENT

PRODUCT DESCRIPTION

Northern Cement produces General Purpose Cement, Type GP, conforming to Australian Standard AS 3972.

General Purpose Cement is manufactured to exacting standards at our Darwin Works, Northern Territory for use in the construction and building industry and in domestic applications.

SUPPLY

General Purpose Cement is available in bulk, bulk bags and 20 kg multi-walled paper bags from the Darwin Works and the Customer Service Centres in regional areas. Paper bags are palletised and stretch wrapped.

SPECIFICATION

General Purpose Cement exceeds the minimum specification given in AS 3972. General Purpose Cement is manufactured under a third party certified manufacturing and supply quality assurance system to ISO 9001 (BSI Certification No FS 604665).

General Purpose Cement is produced from Portland cement clinker and gypsum, and may contain up to 7.5% mineral additions.

APPLICATIONS

General Purpose cement is ideal for use in structural concrete, mortars, renders, grouts and cement based products, and can also be used as a general binder in areas such as soil stabilisation.

Supplementary cementitious materials:

General Purpose Cement is compatible with Fly ash, Amorphous Silica, and Ground Granulated Blast Furnace Slag conforming to the relevant sections of AS 3582.

Admixtures for concrete:

General Purpose cement is compatible with concrete admixtures complying with AS 1478.

TYPICAL PROPERTIES

General Purpose Cement as its name suggests, is the traditional basic cement used in industry. It is normally used when the special properties of low heat of hydration

(temperature rise), high sulfate resistance or high early strength are not required.

Typical Physical Properties

Test	Typical Values	AS 3972 Requirement
Fineness Index (m ² /kg) AS 2350.8		
	310 - 370	-
Setting Time (hr:min) AS 2350.4		
Initial	1:55	Min 0:45
Final	3:00	Max 6:00
Soundness (mm) AS 2350.5		
	<3	Max 5
Compressive Strength ISO-CEN mortar bars (MPa) AS 2350.11		
3 Day	32 - 42	-
7 Day	43 - 55	Min 35
28 Day	56 - 70	Min 45

Typical Chemical Properties

Test	Units	Max AS 3972	Typical Values
Sulphur Trioxide	%	3.5	3.1
Loss on Ignition	%	-	1.5 – 3.0
Chloride	%	0.1	0.01
Equivalent Alkalis	%	-	0.5
Hexavalent Chromium	mg/kg	-	Trace
Crystalline Silica	%	-	Trace
Components			
Portland Clinker	%	-	86 – 93
Gypsum	%	-	5 - 7
Mineral Addition	%	7.5	up to 7.5

HANDLING AND STORAGE

Transportation may be in bulk road or rail tankers or in paper bags. General Purpose Cement can be stored in concrete or steel silos and paper bags for up six months provided that protection against ingress of moisture is be observed throughout the storage of the product.

SAFETY INFORMATION

For safety information refer to the Safety Data Sheet for General Purpose Cement.

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CONTACT POINTS

For further information contact the Sales and Marketing Department at:

Northern Cement Ltd
ABN 50 008 673 470
810 Berrimah Road
East Arm, Northern Territory 0828
Telephone: 08 8984 0600

Email: ntorders@adbri.com.au
Web Site: www.northerncement.com.au

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