



CLASS G (HSR) CEMENT

PRODUCT DESCRIPTION

Adelaide Brighton Cement supplies Class G High Sulfate Resistant Grade (HSR) cement, which is compliant to the American Petroleum Institute (API) Specification 10A.

Class G (HSR) cement is special purpose cement for the oil and gas exploration industry.

Class G (HSR) cement also complies with AS 3972 as a Type SR and Type GP cement.

SUPPLY

Class G (HSR) cement is manufactured for Adelaide Brighton Cement under API Licence No 10A-0122. Class G (HSR) cement is available in bulk bags and bulk road tanker.

SPECIFICATION

Class G (HSR) cement is a high quality product produced from Portland Cement Clinker and designed to conform to the requirements of API Specification 10A for Class G (HSR) cement.

APPLICATIONS

Class G (HSR) cement is intended for applications ranging from the surface to depths of 2400 metres.

It can be used with additives such as accelerators and retarders to cover a wide range of well depths and temperatures. Various other additives for regulating the specific gravity of the cement slurry, and its water retention capacity can also be used.

HANDLING AND STORAGE

Transportation is in bulk road tankers or road transported bulk bags. Class G (HSR) cement can be stored in concrete or steel silos for three months provided that protection against moisture ingress is observed during the storage interval.

SAFETY INFORMATION

For safety information refer to the Safety Data Sheet for Class G (HSR) cement.

Chemical Properties

	API Specification	Typical Values %
Loss on Ignition	3.0 max	0.6 – 2.0
Insoluble Residue	0.75 max	0.10 – 0.55
Sulfuric Anhydride (SO ₃)	3.0 max	2.8
Magnesium Oxide (MgO)	6.0 max	1.0 – 3.0
Na ₂ O Equivalent	0.75 max	0.25 – 0.55
Tetracalcium Aluminoferrite plus twice Tricalcium Aluminate (C ₄ AF + 2(C ₃ A))	24 max	14
Tricalcium Aluminate (C ₃ A)	3.0 max	0.0
Tricalcium Silicate (C ₃ S)	48 - 65	53 – 65

Physical Properties

	API Specification	Typical Values
Free Fluid Content (%)	5.9 max	5.0
8 Hour Compressive Strength at 38°C and atmospheric pressure (MPa)	2.1 min	2.8
8 Hour Compressive Strength at 60°C and atmospheric pressure (MPa)	10.3 min	12.4
Consistency 15-30 mins (Bearden Units)	30 max	15
Thickening Time, Schedule 5 (mins)	90 – 120	91 – 119

CONTACT POINTS

For further information contact the Sales and Marketing Department at:

Adelaide Brighton Cement Ltd
ABN 96 007 870 199
62 Elder Road
BIRKENHEAD SA 5015

Telephone: 08 8300 0300

Facsimile: 08 8341 1591

Web Site: www.adelaidebrighton.com.au

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