



# Oil Well Cement (OWC)

## Technical Data Sheet

### SECTION 1 – PRODUCT IDENTIFICATION

**Product Name:** Oil Well Cement (OWC) – API Class G HSR

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

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

**Product Type:** Oil Well Cement for onshore and offshore well construction

**Standard / Compliance:** API Spec 10A / API Monogram License No. 10A-0137

**Product Description:**

Oil Well Cement (OWC) – API Class G HSR is a hydraulic cement manufactured in accordance with API Spec 10A requirements for use in oil and gas well cementing operations. The product is supplied as Class G – High Sulfate Resistant (HSR) cement, providing controlled chemical composition and verified performance properties to ensure reliable field application in onshore and offshore well construction.

### SECTION 2 – INTENDED USES

Oil Well Cement (OWC) is intended for use in onshore and offshore well construction where high sulfate resistance and consistent quality are required.

GCC supplies API Class G cement Type HSR to support optimal well drilling performance and help achieve drilling cost and time efficiency.

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Revision Date:  
01/12/2025



### SECTION 3 – PRODUCT COMPOSITION (GENERAL)

Oil Well Cement is a hydraulic cement manufactured for oil and gas well cementing applications in accordance with API specifications.

GCC ensures consistent quality through controlled manufacturing and laboratory testing.

### SECTION 4 – PRODUCT CHARACTERISTICS & PERFORMANCE

Key characteristics and benefits of OWC:

- API Class G – High Sulfate Resistant (HSR)
- Designed to provide reliable performance for oil well cementing operations
- Manufactured with consistent quality controls and testing to ensure suitability for field use

### SECTION 5 – APPLICATIONS

Suitable for:

- Onshore well cementing
- Offshore well cementing
- Oil and gas well construction applications requiring API Class G HSR cement



## SECTION 6 – QUALITY MANAGEMENT & ASSURANCE

GCC has been granted the right to use the Official API Monogram for manufactured products conforming to API Spec 10A.

API Monogram License Number: 10A-0137.

## SECTION 7 – TESTING & LABORATORY FACILITIES

GCC provides laboratory testing services and quality control for Oil Well Cement to ensure compliance with API requirements.

## SECTION 8 – PACKAGING & SUPPLY

Supply is available based on project requirements. Please contact GCC sales for packaging and delivery options.

## SECTION 9 – PROJECT REFERENCES

GCC Oil Well Cement supports oil and gas well construction projects and is supplied for onshore and offshore operations.



**Test Certificate**

**API Spec 10A - Class HSR**

**CHEMICAL COMPOSITION**

<b>Parameter</b>	<b>Unit</b>	<b>Requirements</b>	<b>Typical Results</b>
Loss of Ignition	%	Max. 3.0	0.94
Insoluble Residue	%	Max. 0.75	0.23
Tricalcium Silicate (C <sub>3</sub> S)	%	Min. 48.0 & Max 65.0	56.4
Magnesium Oxide (MgO)	%	Max. 6.0	1.34
Tricalcium Aluminate (C <sub>3</sub> A)	%	Max. 3.0	1.3
Sulphur Trioxide (SO <sub>3</sub> )	%	Max. 3.0	1.97
C <sub>3</sub> A + Ferrite (C <sub>4</sub> AF)	%	Max. 24.0	19.0
Total Alkalies as (Na <sub>2</sub> O + 0.658K <sub>2</sub> O)	%	Max. 0.75	0.29




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### PHYSICAL PROPERTIES

<b>Parameter</b>	<b>Unit</b>	<b>Requirements</b>	<b>Typical Results</b>
Mix Water, mass fraction of cement	%	Performance requirements	44
Air Permeability, Specific Surface	m <sup>2</sup> /kg	—	365
Slurry Density (Clause 8)	PPG	—	15.8
Free Water	%	Max. 5.9	4.05
Compressive Strength (8h Curing Time)	MPa	Min. 2.1	5.5
Compressive Strength (24h Curing Time)	MPa	Min. 10.3	12.1
Thickening Time (Consistency 15–30 min)	Minutes	90 - 120	109
Thickening Time (Consistency 15–30 min)	Minutes	Max. 30	12



**API CERTIFICATION**



**American  
Petroleum  
Institute**



2013-451 | N/A

**Certificate of Authority to use the Official API Monogram**  
**License Number: 10A-0137** **ORIGINAL**

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The American Petroleum Institute hereby grants to

**GULF CEMENT COMPANY  
Khor Kwair Industrial Area  
Ras Al Khaimah, Ras Al Khaimah  
United Arab Emirates**

The right to use the Official API Monogram<sup>®</sup> on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1<sup>®</sup> and **API-10A** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **10A-0137**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: **API Well Cement Class G at Grade(s) HSR**

QMS Exclusions: Design; Validation of Processes

**Effective Date: SEPTEMBER 25, 2025**  
**Expiration Date: JANUARY 30, 2029**

To verify the authenticity of this license, go to [www.api.org/compostellst](http://www.api.org/compostellst).



Senior Vice President of Global Industry Services

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