



# مصنع اسمنت الشارقة SHARJAH CEMENT FACTORY

## WELL CEMENTS

### Well cements to API Specification 10A



Sharjah Cement Factory well cements are manufactured to API specification 10A. These are consistent products obtained by grinding clinker, consisting essentially of hydraulic Calcium Silicates and usually containing one or more forms of Calcium Sulfate.

#### Production of Well Cements

Well cement is produced at Sharjah Cement Factory during special campaigns of high sulfate resistance clinker. This is stocked separately from other product clinkers and finished product is stored separately in a dedicated silo. Well cement is specified using classes A, B, C, D, G and H and the grade ordinary(O), moderate Sulfate resistance(MSR) and high sulfate resistance (HSR).

API Product Classes	Class <b>H</b> High Sulfate resistant, Medium Sulfate resistant. Class <b>G</b> High Sulfate resistant, Medium Sulfate resistant. Class <b>A</b> Ordinary Class <b>B</b> High Sulfate resistant, Medium Sulfate resistant.
Packing	Bulk, bulk bag or 50kg paper bags
Delivery	By truck or overseas by ship

#### Typical Chemical Properties of Sharjah Cement Factory Well Cement

Specification	API Standard Requirement	Actual Values (Class G-HSR)
Chemical Composition		
• Loss on Ignition	≤ 3.0 %	< 1.5%
• Insoluble Residue	≤ 0.75 %	< 0.6 %
• MgO	≤ 6.0%	< 3.0 %
• SO <sub>3</sub>	≤ 3.0 %	< 2.5 %
• Alkali content expressed as Na <sub>2</sub> O equivalent	≤ 0.75 %	< 0.60 %
• C <sub>3</sub> S	48 – 65 %	< 65%
• C <sub>3</sub> A	≤ 3.0%	< 3.0%
• C <sub>4</sub> AF + 2C <sub>3</sub> A	≤ 24 %	< 20 %

#### Typical Physical Properties of Sharjah Cement Factory Well Cement

Specification	API Standard Requirement	Actual Values (Class G-HSR)
• Free Fluid content	≤ 5.9 %	< 5.9 %
• Compressive Strength		
8h, 38°C	≥ 2.1 Mpa	> 4.0 Mpa
8h, 60°C	≥ 10.3 Mpa	> 10.5 Mpa
• Thickening Time	90 – 120 min	< 120 min
• Maximum Consistency	≤ 30 Bc	< 26 Bc



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### Quality Control

Throughout the manufacturing process, the physical and chemical properties of well cements are carefully monitored and controlled



High Pressure High Temperature Consistometer



Ultra-Sonic cement Analyser



XRD Cubix3 for Reitveldt analysis

Value Added Benefits From Sharjah Cement Factory	Product Support Testing
➤ ISO 9001 – 2008 Certified	✓ Chemistry (XRF and XRD)
➤ Optimized Logistics	✓ Thickening times
➤ 24/7 Shipping	✓ Free fluid
➤ Technical Product support	✓ Rheology
➤ Full Product Testing	✓ Particle size evaluation
➤ Product consistency	✓ Compressive strengths - API - UCA
	✓ Complete API Spec 10A



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