



# شركة أسمنت الإتحاد (ش.م.خ.)

## UNION CEMENT COMPANY (Pr.J.S.C)

### TEST REPORT

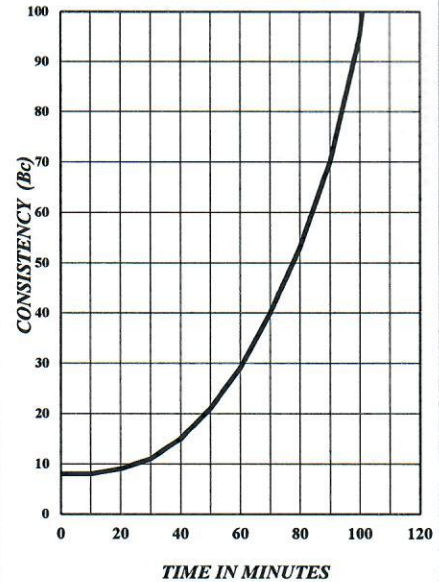
QUALITY		CUSTOMER		ORDER REF.	DATE
API CLASS G (HSR) WELL CEMENT					24-Feb-2025
BATCH NO.	SAMPLE NO.	QUANTITY	PACKING	PROD.DATE	SIGN
B-11/2025/03				23-Feb-25	QA-MANAGER

All tests have been performed as per API Spec. 10A, 25th Edition 2019 and found within limits.

DESCRIPTION	API SPEC REQUIREMENT	OBTAINED RESULTS
<b>PHYSICAL TESTS :</b>		
Expansion (%)		0.01
Fineness, Blaine (m <sup>2</sup> /kg)		319
Free Fluid (%)	5.9 MAX.	3.5
Thickening Time Sch. 5 (minutes)	90 - 120	101
Max. Consistency 15-30 Min. (Bc)	30 MAX.	11
<b>8 Hrs. Compressive Strength At Atmospheric Pressure (PSI)</b>		
At 38° C.	300 MIN.	930
At 60° C.	1500 MIN.	2560
Slurry Density lbs./Gal	---	15.8
<b>CHEMICAL ANALYSIS :</b>		
Magnesium Oxide ( MgO ) %	6.0 MAX.	1.23
Sulfur Trioxide ( SO <sub>3</sub> ) %	3.0 MAX.	2.37
Loss On Ignition %	3.0 MAX.	1.31
Insoluble Residue %	0.75 MAX.	0.32
Tricalcium Silicate ( C <sub>3</sub> S ) %	48 - 65	63.1
Tricalcium Aluminate ( C <sub>3</sub> A ) %	3.0 MAX.	0.00
C <sub>4</sub> AF + 2C <sub>3</sub> A %	24 MAX.	19.1
Sodium Oxide Equivalent %	0.75 MAX.	0.50
Mix water % (FIXED PARAMETER)	44	44



THICKENING TIME TEST  
API SCHEDULE 5



Ref:137/25

UCC/QC /D/022B

Revision no.:08

Jan,2023

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