



# شركة اسمنت الإتحاد نورسم (ش.ذ.م.م) UNION CEMENT NORCEM CO. LTD. (L.L.C.)

C.R. No.: 3538

رأس المال المصرح به والمدفوع ٢,٥٠٠,٠٠٠ درهم  
Paid up share capital Dirhams 2500,000

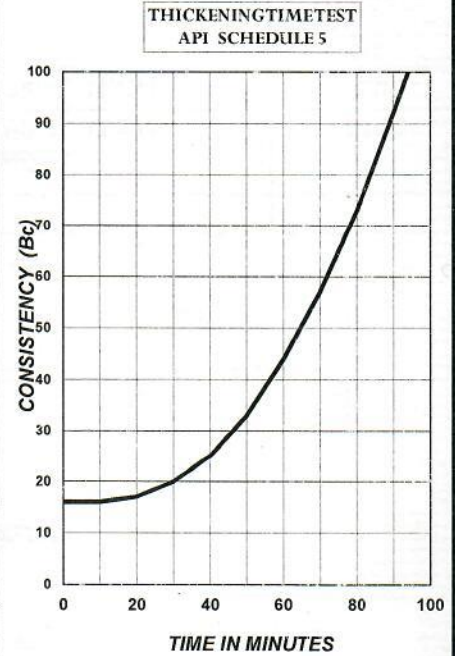
سجل تجاري رقم: ٣٥٣٨

## TEST REPORT

QUALITY		CUSTOMER		ORDER REF.	DATE
API CLASS G (HSR) WELL CEMENT					26-May-2019
BATCH NO.	SAMPLE NO.	QUANTITY	PACKING	PROD.DATE	SIGN
B-20/2019/02				25 May, 2019	QA-MANAGER

All tests have been performed as per API Spec. 10A 24th Edition 2010 - reaffirmed 2015, and found within limits

DESCRIPTION	API SPEC 10A REQUIREMENT	OBTAINED RESULTS
<b>PHYSICAL TESTS :</b>		
Expansion (%)		0.01
Fineness, Blaine (m <sup>2</sup> /kg)		310
Free Fluid (%)	5.9 MAX.	3.3
Thickening Time Sch. 5 (minutes)	90 - 120	94
Max. Consistency 15-30 Min. (Bc)	30 MAX.	20
<b>8 Hrs. Compressive Strength At Atmospheric Pressure (PSI)</b>		
At 38° C.	300 MIN.	690
At 60° C.	1500 MIN.	2160
Slurry Density lbs./Gal	----	15.8
<b>CHEMICAL ANALYSIS :</b>		
Magnesium Oxide ( MgO ) %	6.0 MAX.	1.54
Sulfur Trioxide ( SO3 ) %	3.0 MAX.	1.86
Loss On Ignition %	3.0 MAX.	1.03
Insoluble Residue %	0.75 MAX.	0.38
Tricalcium Silicate ( C3S ) %	48 - 65	56.8
Tricalcium Aluminate ( C3A ) %	3.0 MAX.	0.78
C4AF + 2C3A %	24 MAX.	18.8
Sodium Oxide Equivalent %	0.75 MAX.	0.58
Mix water % (FIXED PARAMETER)	44	44



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