



معمل سمنت الكوفة

AI-KUFA CEMENT PLANT

(KF/19/01)

REPORT OF CEMENT QUALITY

QUALITY CONTROL DEPA (LAB.)

قسم السيطرة النوعية / (المختبرات)

Reference number Silo NO	Type of cement S.R. P.C.
Factory / Al-Kufa Cement Plant	Sampling date From 1/1/2020 Testing date 31/1/2020

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO ₂	20.92		
	Al ₂ O ₃	3.98		
	Fe ₂ O ₃	4.94		
	CaO	62.18		
	MgO	3.29	≤ 5%	OK
	SO ₃	2.04	≤ 2.8% for OPC. ≤ 2.5% for SRPC.	OK
	LOSS ON IGNITION	2.10	≤ 4%	OK
	Total	99.45		
	INSOLUBLE RESIDUE	0.63	≤ 1.5%	OK
	FREE LIME	1.16		
	L.S.F	0.91		
	M.S	2.34		OK
	M.A	0.81		
	C ₃ S	49.76		
	C ₂ S	22.44		
	C ₃ A	2.20	≤ 3.5 for S.R.P.C	OK
	C ₄ AF	15.04		

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	120	≥ 45 min	OK
	Final	3.10	≤ 10 hr	
Fineness (Blaine)		3119	≥ 2500Cm ² /gm for OPC ≥ 2800Cm ² /gm for SRPC	OK
Compressive Strength	2days	17.16	≥ 10 MN/m ²	OK
	28days	38.02	≥ 32.5 MN/m ²	
Soundness (Autoclave) %		0.10	≤ 0.8	OK
Residue on sieve %	90 μm	6.07		OK
	180 μm	0.48		

According to i.Q No 5/2019

Plant Manager
رئيس قسم مراقبة الجودة
جميل ابراهيم حسين
و مدير معمل سمنت الكوفة

Final Result acceptable
Production Manager

Quality Manager
C.C.C / C / 14

