



معمل سمنت الكوفة  
AI-KUFA CEMENT PLANT  
QM-F-17-1  
REPORT OF CEMENT QUALITY

QUALITY CONTROL DEP.(LAB.)

قسم السيطرة النوعية / (المختبرات)

Reference number Silo	Type of cement /Sulfate Resisting Portland
Factory / Al-Kufa Cement Plant	Sampling date from 15/5/2017 TO 21/5/2017

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS *	
	SiO <sub>2</sub>	21.0	.....	
	Al <sub>2</sub> O <sub>3</sub>	4.09	.....	
	Fe <sub>2</sub> O <sub>3</sub>	5.10	.....	
	CaO	61.92	.....	OK
	MgO	3.34	<= 5%	OK
	SO <sub>3</sub>	2.10	=< 2.8% For OPC =< 2.5 % For SRPC	OK
	LOSS ON IGNITION	1.85	<= 4%	
	Total	99.39		OK
	INSOLUBLE RESIDUE	0.63	<= 1.5%	
	FREE LIME	1.23	.....	OK
	L.S.F	0.90	0.66 - 1.02	
	M.S	2.29	.....	
	M.A	0.80	.....	
	C <sub>3</sub> S	46.71		
C <sub>2</sub> S	24.96		OK	
C <sub>3</sub> A	2.21	<= 3.5 % for S.R.P.C	OK	
C <sub>4</sub> AF	15.52			

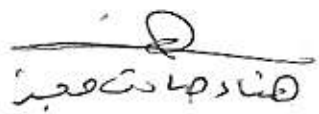
PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	130	>= 45 min	OK
	Final	3.20	<= 10 hr	
Fineness ( Blaine)		3194	>= 230 m <sup>2</sup> /kg for OPC >= m <sup>2</sup> /kg for SRPC250	OK
Compressive Strength	3day	22.9	>= 15 MN/m <sup>2</sup>	OK
	7day	29.0	>= 23 MN/m <sup>2</sup>	
Soundness (Autoclave)%		0.10	<= 0.8	OK
Residue %	90µm	4.18		
	180µm	0.19		

According to I.Q.S No. 5/1984

Final Result acceptable

  
Plant Manager  
وليس مهندسين اقدم  
عباس نعمة هادي  
وكيل مدير المعمل

  
Production Manager

  
Quality Manager  
٢٠١٧/٥/٢٤

Address: Al-Najaf Al-Ashraf  
E-Mail : kufa@icsc.gov.iq



ISO 9001:2008



العنوان : النجف الأشرف / الكوفة  
ص.ب : 25 الكوفة



معمل سمنت الكوفة  
AI-KUFA CEMENT PLANT  
QM-F-17-1

REPORT OF CEMENT QUALITY

QUALITY CONTROL DEP.(LAB.)

قسم السيطرة النوعية / (المختبرات)

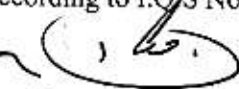
Reference number Silo	Type of cement /Sulfate Resisting Portland
Factory / Al-Kufa Cement Plant	Sampling date from 22/5/2017 TO 31/5/2017

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS *	
	SiO <sub>2</sub>	20.94	.....	
	Al <sub>2</sub> O <sub>3</sub>	4.03	.....	
	Fe <sub>2</sub> O <sub>3</sub>	5.05	.....	
	CaO	61.74	.....	OK
	MgO	3.36	<= 5%	OK
	SO <sub>3</sub>	2.15	=< 2.8%For OPC =<2.5 %For SRPC	OK
	LOSS ON IGNITION	2.07	<= 4%	
	Total	99.36		OK
	INSOLUBLE RESIDUE	0.58	<= 1.5%	
	FREE LIME	1.24	.....	OK
	L.S.F	0.90	0.66 – 1.02	
	M.S	2.31	.....	
	M.A	0.80	.....	
	C <sub>3</sub> S	46.66		
C <sub>2</sub> S	24.84		OK	
C <sub>3</sub> A	2.14	<= 3.5 %for S.R.P.C	OK	
C <sub>4</sub> AF	15.37			

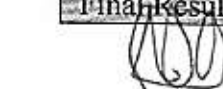
PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	120	>= 45 min	OK
	Final	3.10	<= 10 hr	
Fineness ( Blaine)		3171	>= 230 m <sup>2</sup> /kg for OPC >= m <sup>2</sup> /kg for SRPC250	OK
Compressive Strength	3day	22.70	>= 15 MN/m <sup>2</sup>	OK
	7day	29.20	>= 23 MN/m <sup>2</sup>	
Soundness (Autoclave)%		0.12	<= 0.8	OK
Residue %	90µm	4.25		
	180µm	0.18		

According to I.O.S No. 5/1984

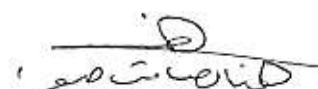
Final Result acceptable



Plant Manager  
عقيل حسن حسن  
مدير معمل سمنت الكوفة



Production Manager



Quality Manager

25/5/17



ISO 9001:2008



242



شركة الكوفة  
ISO 9001



معمل سمنت الكوفة  
AI-KUFA CEMENT PLANT  
QM-F-17-1  
REPORT OF CEMENT QUALITY

QUALITY CONTROL DEP.(LAB.)

قسم السيطرة النوعية / (المختبرات)

Reference number Silo	Type of cement / Sulfate Resisting Portland
Factory / Al-Kufa Cement Plant	Sampling date 1/6/2017 Testing date 7/6/2017

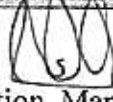
CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS *	
	SiO <sub>2</sub>	21.08	.....	
	Al <sub>2</sub> O <sub>3</sub>	4.07	.....	
	Fe <sub>2</sub> O <sub>3</sub>	5.11	.....	
	CaO	62.11	.....	OK
	MgO	3.23	<= 5%	OK
	SO <sub>3</sub>	2.19	=< 2.8%For OPC =< 2.5 %For SRPC	OK
	LOSS ON IGNITION	1.54	<= 4%	
	Total	99.33		OK
	INSOLUBLE RESIDUE	0.48	<= 1.5%	
	FREE LIME	1.23	.....	OK
	L.S.F	0.90	0.66 – 1.02	
	M.S	2.30	.....	
	M.A	0.80	.....	
	C <sub>3</sub> S	46.77		
C <sub>2</sub> S	25.15		OK	
C <sub>3</sub> A	2.14	<= 3.5 %for S.R.P.C	OK	
C <sub>4</sub> AF	15.55			

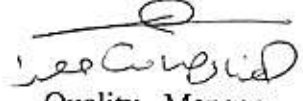
PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	120	>= 45 min	OK
	Final	3.10	<= 10 hr	
Fineness ( Blaine)		3076	>= 230 m <sup>2</sup> /kg for OPC >= m <sup>2</sup> /kg for SRPC250	OK
Compressive Strength	3day	22	>= 15 MN/m <sup>2</sup>	OK
	7day	29.0	>= 23 MN/m <sup>2</sup>	
Soundness (Autoclave)%		0.10	<= 0.8	OK
Residue %	90µm	4.55		
	180µm	0.20		

According to I.O.S No. 5/1984

Final Result acceptable

  
Plant Manager

  
Production Manager

  
Quality Manager  
C.17/1/18



ISO 9001:2008

