



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 / S.R. P.C
Factory / Al-Kufa Cement Plant	Sampling date From 15/1/2018 TO 21/1/2018

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO <sub>2</sub>	21.33	.....	
	Al <sub>2</sub> O <sub>3</sub>	4.05	.....	
	Fe <sub>2</sub> O <sub>3</sub>	4.97	.....	
	CaO	61.98	.....	
	MgO	3.36	.....	
	SO <sub>3</sub>	2.21	≤ 5%	OK
	LOSS ON IGNITION	1.55	≤ 2.8% for OPC. ≤ 2.5% for SRPC.	OK
	Total	99.44	≤ 4%	OK
	INSOLUBLE RESIDUE	0.64	≤ 1.5%	OK
	FREE LIME	1.07	.....	
	L.S.F	0.89	0.66 - 1.02	OK
	M.S	2.37	.....	
	M.A	0.81	.....	
	C <sub>3</sub> S	45.29	.....	
	C <sub>2</sub> S	16.98	.....	
	C <sub>3</sub> A	2.31	≤ 3.5 % for SRPC.	OK
C <sub>4</sub> AF	15.12	.....		

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	130	≥ 45 min	OK
	Final	3.15	≤ 10 hr	
Fineness ( Blaine)		3098	≥ 2300Cm <sup>2</sup> /gm for OPC. ≥ 2500Cm <sup>2</sup> /gm for SRPC.	OK
Compressive Strength	3days	23.2	≥ 15 MN/m <sup>2</sup>	OK
	7days	31.6	≥ 23 MN/m <sup>2</sup>	
Soundness (Autoclave) %		0.10	≤ 0.8	OK
Residue on sieve %	90 μm	4.59	.....	
	180 μm	0.28	.....	

According to i.Q No 5/1984

Final Result acceptable

Plant Manager  
٢٠١٨/١/٢٢

Production Manager  
٢٠١٨/١/٢٢

Quality Manager  
٢٠١٨/١/٢٢







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قسم السيطرة النوعية / ( المختبرات )

Reference number Silo	Type of cement / S.R. P.C
Factory / Al-Kufa Cement Plant	Sampling date From 8/1/2018 TO 14/1/2018

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO <sub>2</sub>	21.53	.....	
	Al <sub>2</sub> O <sub>3</sub>	4.01	.....	
	Fe <sub>2</sub> O <sub>3</sub>	4.89	.....	
	CaO	61.84	.....	
	MgO	3.65	≤ 5%	OK
	SO <sub>3</sub>	2.09	≤ 2.8% for OPC. ≤ 2.5% for SRPC.	OK
	LOSS ON IGNITION	1.60	≤ 4%	OK
	Total	99.60		
	INSOLUBLE RESIDUE	0.58	≤ 1.5%	OK
	FREE LIME	0.93	.....	
	L.S.F	0.88	0.66 – 1.02	OK
	M.S	2.42	.....	
	M.A	0.82	.....	
	C <sub>3</sub> S	44.45	.....	
C <sub>2</sub> S	28.18	.....		
C <sub>3</sub> A	2.35	≤ 3.5 % for SRPC.	OK	
C <sub>4</sub> AF	14.89	.....		

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	130	≥ 45 min	OK
	Final	3.20	≤ 10 hr	
Fineness ( Blaine)		3144	≥ 2300Cm <sup>2</sup> /gm for OPC. ≥ 2500Cm <sup>2</sup> /gm for SRPC.	OK
Compressive Strength	3days	23.2	≥ 15 MN/m <sup>2</sup>	OK
	7days	31.4	≥ 23 MN/m <sup>2</sup>	
Soundness (Autoclave) %		0.10	≤ 0.8	OK
Residue on sieve %	90 μm	4.53	.....	
	180 μm	0.27	.....	

According to i.Q No 5/1984

Final Result acceptable

Plant Manager

Production Manager

Quality Manager



ISO 9001:2008







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QUALITY CONTROL DEP. (LAB.)

قسم السيطرة النوعية / (المختبرات)

Reference number Silo	Type of cement / S.R. P.C
Factory / Al-Kufa Cement Plant	Sampling date FORM 1/1/2018 TO 7/1/2018

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO <sub>2</sub>	21.54	.....	
	Al <sub>2</sub> O <sub>3</sub>	4.06	.....	
	Fe <sub>2</sub> O <sub>3</sub>	4.95	.....	
	CaO	61.58	.....	
	MgO	3.49	≤ 5%	OK
	SO <sub>3</sub>	2.13	≤ 2.8% for OPC. ≤ 2.5% for SRPC.	OK
	LOSS ON IGNITION	1.80	≤ 4%	OK
	Total	99.54		
	INSOLUBLE RESIDUE	0.69	≤ 1.5%	OK
	FREE LIME	0.98	.....	
	L.S.F	0.88	0.66 – 1.02	OK
	M.S	2.39	.....	
	M.A	0.82	.....	
	C <sub>3</sub> S	42.61	.....	
C <sub>2</sub> S	29.59	.....		
C <sub>3</sub> A	2.38	≤ 3.5 % for SRPC.	OK	
C <sub>4</sub> AF	15.06	.....		

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	140	≥ 45 min	OK
	Final	3.20	≤ 10 hr	
Fineness ( Blaine)		3124	≥ 2300Cm <sup>2</sup> /gm for OPC. ≥ 2500Cm <sup>2</sup> /gm for SRPC.	OK
Compressive Strength	3days	21.9	≥ 15 MN/m <sup>2</sup>	OK
	7days	30.50	≥ 23 MN/m <sup>2</sup>	
Soundness (Autoclave) %		0.1	≤ 0.8	OK
Residue on sieve %	90 μm	4.53	.....	
	180 μm	0.25	.....	

According to i.Q No.5/1984

plant Manager

Final Result acceptable

Production Manager

Quality Manager



ISO 9001:2008







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QM-F-17-1  
**REPORT OF CEMENT QUALITY**

QUALITY CONTROL DEP. \ (LAB.)

قسم السيطرة النوعية / ( المختبرات )

Reference number Silo	Type of cement / S.R. P.C
Factory / Al-Kufa Cement Plant	Sampling date FORM 22/12/2017 TO 31/12/2017

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO <sub>2</sub>	21.34	.....	
	Al <sub>2</sub> O <sub>3</sub>	3.93	.....	
	Fe <sub>2</sub> O <sub>3</sub>	5.01	.....	
	CaO	61.69	.....	
	MgO	3.50	≤ 5%	OK
	SO <sub>3</sub>	2.16	≤ 2.8% for OPC. ≤ 2.5% for SRPC.	OK
	LOSS ON IGNITION	2.00	≤ 4%	OK
	Total	99.62		
	INSOLUBLE RESIDUE	0.67	≤ 1.5%	OK
	FREE LIME	0.91	.....	
	L.S.F	0.89	0.66 – 1.02	OK
	M.S	2.39	.....	
	M.A	0.78	.....	
	C <sub>3</sub> S	45.59	.....	
C <sub>2</sub> S	26.78	.....		
C <sub>3</sub> A	1.93	≤ 3.5 % for SRPC.	OK	
C <sub>4</sub> AF	15.24	.....		

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	130	≥ 45 min	OK
	Final	3.20	≤ 10 hr	
Fineness ( Blaine)		3118	≥ 2300Cm <sup>2</sup> /gm for OPC. ≥ 2500Cm <sup>2</sup> /gm for SRPC.	OK
Compressive Strength	3days	23.44	≥ 15 MN/m <sup>2</sup>	OK
	7days	30.50	≥ 23 MN/m <sup>2</sup>	
Soundness (Autoclave) %		0.11	≤ 0.8	OK
Residue on sieve %	90 μm	4.43	.....	
	180 μm	0.26	.....	

According to I.Q No.5/1984

Final Result acceptable

plant Manager

Production Manager

Quality Manager

2018/12