

In The Name Of God

Chemical Analysis Report

Date of Analysis:

T.CO₃ % =

Sample: Clinker Type 2

MgCO₃ % =

Weight Results		
SiO ₂	Cruc. + SiO ₂	
	Cruc.	
R ₂ O ₃	Cruc. + R ₂ O ₃	
CaO	Cruc. + CaO	
	Cruc.	
MgO	Cruc + MgO	
	Cruc.	
SO ₃	Cruc. + SO ₃	
	Cruc.	
L.O.I	Cruc. + Sample	
	Cruc.+Loss Free Sample	
Insoluble Residue	Cruc. + I.R.	
	Cruc.	
Fe ₂ O ₃	Weight of Sample	
	ml of K ₂ Cr ₂ O ₇	

Analysis of Results		Acceptable Limits
SiO ₂ %	20.80	20.6 – 21.6
Al ₂ O ₃ %	5.53	5.2 – 5.9
Fe ₂ O ₃ %	3.55	3.35 – 4.00
TiO ₂ %	----	-----
CaO %	64.20	63.8 – 66
MgO %	4.00	3.5 – 4.5
SO ₃ %	0.80	MAX -1.30
K ₂ O %	0.73	MAX – 0.90
Na ₂ O %	0.40	MAX – 0.48
P ₂ O ₅ %	----	-----
L .O.I. %	0.16	MAX - 0.30
Total %		
Cl %		
I . R. %	0.12	MAX – 0.30
Free CaO %	0.95	MAX – 1.50
L . S . F.	95.72	93 – 96
SiM	2.29	2.10 – 2.40
AlM	1.56	1.30 – 1.70
Na ₂ O eq	----	-----
C ₃ S	58.77	55 – 61
C ₂ S	15.32	11.2 – 17.2
C ₃ A	8.65	MIN – 8
C ₄ AF	10.80	10.0 - 12.2
L.P.	----	-----

Remarks:

Laboratory manager:

Technical Chief:

Analyst:

A-F-12-03/01



Form of testing Certificate

Special for customers
Address

Type of request test: chemical physical

Type of standard request test: ASTM

Date of sampling :

Code of sample:

type of sample: Portland cement type 2

name of unit:

Buyer :

Buyer Add :

Environment condition during

temperature	chemical	humidity	temperature	physical
		62%	21 °C	

Chemical test report

Description of test	Ins.Res%	SiO2%	Al2O3%	Fe2O3%	CaO%	MgO%	SO3%	L.O.I%	CL%	K2O%	Na2O%	C3A %
Test result	0.25	20.40	4.90	3.75	62.1	3.25	2.70	1.80	0.009	0.72	0.36	6.64
Acceptable Product	0.35- 0.65	20.20-21.7	4.50- 5.20	3.50-4.20	61 - 64	3.00- 4.30	1.90 -2.90	1.00-2.80	---	MAX 0.78	MAX 0.45	5.5 - 7.5
Acceptable limit in Standard ASTM	0. 75>		6>	6>		6>	3>	3>				8>
Test method	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-114	ASTM C-150

Chemical analyzer:

head of laboratory:

Deviation from test method:

existed;

not existed:

reason:

Physical test report

Description of test	Beline (Cm2/g)	mixture of water percentage	setting time (Min)		Autoclave (%)	Compressive strength (kg/cm ²)			Bending strength (kg/cm ²)			percentage of rough on the sifter 90
			initial	final		3day	7days	28day	3day	7days	28day	
Test result	2990	23.5	140	200	0.09	250	360	455	56	62	78	1.5
Acceptable limit in Standard ASTM	2800<	--	45<	375>	0.8>	100<	175<	--	--	--	--	--
Acceptable Product	MIN 2800	22- 26	100-200	150-290	0.04 - 0.20	MIN 210	MIN 310	MIN 430	MIN 50	MIN 57	MIN 65	0.5 - 3
Test method	C-204-07		C-191-08		C-151M-09							

Physical analyzer:

head of physical laboratory:

Deviation from test method:

existed;

not existed:

reason:

Name and signature of technical manager:

name & signature of laboratory manager:

Discriptions:result of this test with standard NO

Is accordance:

isn't accordance:

Name & address of sub-performing laboratory tests:

Name of tests have been performed by sub-laboratory:

Method of sampling according to LA-P-14 producer:

The cost of test is.....transfer to.....account NO.

This results independent on test sample.

Uncertainly are reported by with level of assurance (95%)

Any copy of this certification must be complete.

LA-F-12-01/01

Form of testing Certificate



Special for customers
Address

Type of request test: chemical physical
Type of standard request test: ISIRI

Date of sampling :1391/08/17
Code of sample: P-||-910817-B2
type of sample: Portland cement type 2
name of unit:

Environment condition during

temperature	chemical	humidity	temperature	physical
		58 %	22.3 °C	

Buyer :
Buyer Add :

Chemical test report

Description of test	Ins.Res %	SiO2%	Al2O3 %	Fe2O3 %	CaO%	MgO%	SO3%	L.O.I %	CL%	K2O%	Na2O %	C3A %
Test result	0.34	20.40	5.23	3.61	62.26	3.49	2.17	2.15	---	0.75	0.41	7.76
Uncertainly												
Acceptable limit	0.75 >	20 <	6 >	6 >		5 >	3 >	3 >				8 >
Test method	1692	1692	1692	1692	1692	1692	1692	1692	6443	1695		389

Chemical analyzer:

head of laboratory:

Deviation from test method:

existed;

not existed: √

reason:

Physical test report

Description of test	Belin (Cm2/g)	mixture of water percentage	setting time (Min)		Expansion Autoclave %	Compressive strength (Kg/Cm2)			Bending strength (Kg/Cm2)			percentage of rough on the sifter 90
			initial	final		3day	7days	28day	3day	7days	28day	
Test result	2950	24.3	110	170	0.1	268	355	474	52	60	81	1.5
Uncertainly	2800 <		45 <	360 >	0.8 >	100 <	175 <	315 <				
Acceptable limit												
Test method	390	392	392		391	393			393			390

Physical analyzer:

head of physical laboratory:

Deviation from test method:

existed;

not existed: √

reason:

Name and signature of technical manager:

Discriptions: result of this test with standard NO

name & signature of laboratory manager:

Is accordance:

isn't accordance:

Name & address of sub-performing laboratory tests:

Name of tests have been performed by sub-laboratory:

Method of sampling according to LA-P-14 producer:

The cost of test is.....transfer to.....account NO.

This results independent on test sample.

Uncertainly are reported by with level of assurance (95%)

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LA-F-12-01/01



Form of testing Certificate

Special for customers
Address

Type of request test: chemical physical
Type of standard request test: EN

Date of sampling :
Code of sample:
type of sample: Portland cement type 1-42.5 (Cem II / A-M (S-L) 42.5N)
name of unit:
Buyer :
Buyer Add :

Environment condition during

temperature	chemical	humidity	temperature	physical
		60%	21.3 °C	

Chemical test report

Description of test	Ins.Res%	SiO2%	Al2O3%	Fe2O3%	CaO%	MgO%	SO3%	L.O.I%	CL%	K2O%	Na2O%	C3A %
Test result	0.28	20.32	4.90	3.63	62.25	3.25	2.55	2.00	0.01	0.70	0.37	6.85
Acceptable Product	0.35- 0.65	20.20-21.7	4.50- 5.20	3.50-4.20	61 - 64	3.00- 4.30	1.90 -2.90	1.00-2.80	0.01-0.03	MAX 0.78	MAX 0.45	5.5 - 7.5
Acceptable limit in Standard EN	--	--	--	--	--	--	3.5>	--	0.1>	--	--	--
Test method	196-2	196-2	192-2	196-2	196-2	196-2	196-2	196-2	196-21	196-21		

Chemical analyzer: head of laboratory:
Deviation from test method: existed; not existed: reason:

Physical test report

Description of test	Belene (Cm2/g)	mixture of water percentage	setting time (Min)		Soundness (mm)	Compressive strength (M Pa)			Bending strength (M Pa)			percentage of rough on the sifter 90
			initial	final		2day	7days	28day	2day	7days	28day	
Test result	2990	23.5	135	195	0.3	22.9	35.7	47.9	0.047	0.061	0.086	1.4
Acceptable limit in Standard EN	--	--	60<	--	10>	10<	--	min42.5 max62.5	--	--	--	--
Acceptable Product	MIN 2800	22- 26	100-200	150-290	0.3 - 2	MIN 20	MIN 31	MIN 42.5	MIN 0.040	MIN 0.050	MIN 0.065	0.5 - 3
Test method	196-6	--	196-3		196-3	196-1			196-1			--

Physical analyzer: head of physical laboratory:
Deviation from test method: existed; not existed: reason:

Name and signature of technical manager: name & signature of laboratory manager:
Discriptions:result of this test with standard NO Is accordance: isn' t accordance:

Name & address of sub-performing laboratory tests:
Name of tests have been performed by sub-laboratory:
Method of sampling according to LA-P-14 producer:

The cost of test is.....transfer to.....account NO.
This results independent on test sample.
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LA-F-12-01/01