



ILAM CEMENT
Date: 27-July-2020

IN THE NAME OF GOD
ILAM CEMENT CO.

Quality Control Dept.

Chemical & Physical Analysis of Clinker Type 5



CERTIFICADO N° / CERTIFICATE N°
1170/CPR/CT.03584



DAILY QUALITY CERTIFICATE Suitable For high sulphat Resistance	Composition	REQUIREMENT			%Mass Fraction
		ACCORDING . TO			
		ISIRI 389	ASTM C150	EN 197-1	

CHEMICAL ANALYSIS

Loss on Ignition	%	LOI	Max 3.0	Max 3.0	Max 5.0	0.25
Silicon Dioxide	%	SiO2	-	-	-	21.8
Aluminium Oxide	%	Al2O3	-	-	-	4.66
Ferric Oxide	%	Fe2O3	-	-	-	5.07
Calcium Oxide	%	CaO	-	-	-	65.11
Magnesium Oxide	%	MgO	Max 5.00	Max 6.00	-	1.89
Sulfur Trioxide	%	SO3	Max 2.3	Max 2.3	Max 3.0	0.39
Sodium Oxide	%	Na2O	-	-	-	0.17
Potassium Oxide	%	K2O	-	-	-	0.61
Chlorides	%	Cl	-	-	-	0.01
TOTAL		Total	-	-	-	99.96
Insoluble Residue	%	IR	Max 0.75	Max 1.5	Max 5.0	0.21
Free CaO	%	F.CaO	-	-	-	0.86
Lime Saturation Factor	%	LSF	-	-	-	93.23
Silica ration	%	SIM	-	-	-	2.24
Alumina ratio	%	ALM	-	-	-	0.92
Tricalcium Silicate	%	C3S	-	-	-	59.65
Dicalcium Silicate	%	C2S	-	-	-	17.52
Tricalcium Aluminate	%	C3A	Max 5.00	Max 5.00	Max 5.0	3.77
Calcium Alumino Ferrite	%	C4AF	-	-	-	15.41
C3A + C3S	%	-	-	-	-	63.42
C4AF + 2C3A	%	-	Max 25.0	Max 25.0	-	22.95
Alkalies (Na2O+ 0.658 K2O)	%	-	-	-	-	0.57

PHYSICAL TESTS

Weight Liter	gr/l	-	-	-	1350
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NO, 5, Anushirvani St, thaghavi st., ferdowsi ave., tehran, postcode 1145687813, iran Tel: +982166341471-66341478 Fax:+982166341483

www.irancementco.com e-mail:info@ilamcementco.com

QC Maneger
Mohammad javad .Ghadimi

Factory Manager
Bahram Shafieian