



ILAM CEMENT
Date: 23-July-2020

IN THE NAME OF GOD
ILAM CEMENT CO.

Quality Control Dept.

Chemical & Physical Analysis of Clinker Type 2



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



DAILY QUALITY CERTIFICATE	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	-	0.19
Silicon Dioxide	%	SiO ₂	Min 20.0	Min 20.0	-	21.94
Aluminium Oxide	%	Al ₂ O ₃	Max 6.0	Max 6.0	-	5.79
Ferric Oxide	%	Fe ₂ O ₃	Max 6.0	Max 6.0	-	4.43
Calcium Oxide	%	CaO	-	-	-	64.16
Magnesium Oxide	%	MgO	Max 5.00	Max 6.00	-	2.26
Sulfur Trioxide	%	SO ₃	Max 3.0	Max 3.0	-	0.39
Sodium Oxide	%	Na ₂ O	-	-	-	0.2
Potassium Oxide	%	K ₂ O	-	-	-	0.62
Chlorides	%	Cl	-	-	-	0.01
TOTAL		Total	-	-	-	99.99
Insoluble Residue	%	IR	Max 0.75	Max 1.5	-	0.22
Free CaO	%	F.CaO	-	-	-	0.66
Lime Saturation Factor	%	LSF	-	-	-	90.18
Silica ration	%	SIM	-	-	-	2.15
Alumina ratio	%	ALM	-	-	-	1.31
Tricalcium Silicate	%	C ₃ S	-	-	-	48.04
Dicalcium Silicate	%	C ₂ S	-	-	-	26.68
Tricalcium Aluminate	%	C ₃ A	Max 8.00	Max 8.00	-	7.85
Calcium Alumino Ferrite	%	C ₄ AF	-	-	-	13.47
C ₃ A + C ₃ S	%	-	-	-	-	55.89
C ₄ AF + 2C ₃ A	%	-	-	-	-	29.16
Alkalies (Na ₂ O+ 0.658 K ₂ O)	%	-	-	-	-	0.61

PHYSICAL TESTS

Weight Liter	gr/l	-	-	-	-	1400
		-	-	-	-	

NO, 5, Anushirvani St, thaghavi st., ferdowsi ave., tehran, postcode 1145687813, iran Tel: +982166341471-66341478 Fax:+982166341483

www.iracementco.com e-mail:info@ilacementco.com

QC Maneger
Mohammad javad .Ghadimi

Factory Manager
Bahram .Shafieian