

LIMECO, INC.

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CEMENT TYPE I/II

STANDARD REQUIREMENTS ASTM C150

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
SiO ₂ (%)	20.0 min	20.86	Air content of mortar (volume %)	12 max	8.5
Al ₂ O ₃ (%)	6.0 max	4.66	Fineness (cm ² /g)		
Fe ₂ O ₃ (%)	6.0 max	3.59	(Air permeability)	280 min	3946
CaO (%)	A	62.68	Autoclave expansion (%)	0.80 max	0.03
MgO (%)	6.0 max	3.30	Compressive strength (psi)	Min:	
SO ₃ (%)	3.0 max	2.63	1 Day	A	1979
Loss on ignition (%)	3.0 max	1.07	3 Days	1740	3160
Na ₂ O (%)	A		7 Days	2760	4430
K ₂ O (%)	A		28 Days	A	
Insoluble Residue (%)	0.75 max	0.16	Time of setting (minutes)		
Potential Compounds (%)			(Vicat)		
C ₃ S	A	53	Initial	Not less	94.0
C ₂ S	A	20		than 45	
C ₃ A	8 max	6.0		Not more	255
C ₄ AF	A			than 375	
C ₄ AF+2(C ₃ A)	A				
C ₃ S+4.75(C ₃ A)	100 max	82			

OPTIONAL REQUIREMENTS ASTM C150 Tables 2 and 4

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
C ₃ S+C ₃ A (%)	A		False set (%)	A	A
Equivalent alkalis (%)	0.6	0.51	Head of hydration (kJ/kg)		
A = Not applicable.			7 days	A & D	356
B = Limit not specified by purchaser, test result provided for information only.			Heat of hydration (kJ/kg)		
C = Test results for this period not available. D = Test results represent most recent values and is for information only.			28 days	A	A

We certify that the above described cement, at the time of shipment, meets the chemical and Physical requirement of the ASTM C150 and AASHTO M85.