

AKÇANSA ÇİMENTO SANAYİ VE TİCARET A.Ş.

ÇANAKKALE FABRİKASI P.K : 8 17600 Ezine TÜRKİYE	FACTORY LABORATORY TEST CERTIFICATE	DATE TEST NO REF	3.02.2023 KK2/5.4
SAMPLE	CEMENT	NATIONAL CLASS SYMBOL	TYPE I-II/LA
STANDARD	ASTM C 150	DISCHARGE PORT	
DATE of TEST		DATE of SHIPMENT	
NAME of SHIP		WEIGHT of SHIPED GOODS	
CUSTOMER	TYPICAL ANALYSIS	BL DATE	

Test Data on ASTM Standard Requirements

Chemical Requirements (ASTM C-150, Table 1) (C114)			Physical Requirements (ASTM C-150, Table 3)		
Item	Limit	Results	Item	Limit	Results
SiO ₂ (%)	A	19,90	Fineness		
Al ₂ O ₃ (%)	6.0 Max	4,50	% Passing 45µm (No. 325) (C430)	A	95,40
Fe ₂ O ₃ (%)	6.0 Max	3,30	Blaine Fineness (m ² /kg) (C204)	260 min	343
CaO (%)	A	63,60	Packset		3,0
MgO (%)	6.0 max	2,75	Autoclave Expansion (%) (C151)	0.8 max	0,02
SO ₃ (%)	3.0 max ^D	2,71	Vicat Setting Time		
Loss on Ignition (%)	3.5 max	2,04	Initial Set (minutes) (C191)	45-375 min	125
Na ₂ O (%)	A	0,09			
K ₂ O (%)	A	0,53	Air Content Volume (%) (C185)	12 max	6,5
Insoluble Residue (%)	1.5 max	0,25			
CO ₂ (%)	A	1,38	Compressive Strengths Mpa (C109)		
Limestone (%)	5.0 max	3,20	1 day	A	15,2
CaCO ₃ in Limestone	70% Min	98	3 days	12.0 min	25,1
			7 days	19.0 min	34,6
			28 days	A	48,8
Potential Compounds (%)		Adjusted			
C ₃ S	A	58,6			
C ₂ S	A	12,7	Compressive Strengths, PSI C(109)		
C ₃ A	8.0 Max	6,3	1 day	A	2210
C ₄ AF	A	10,0	3 days	1450 min	3643
C ₃ S+4.75*C ₃ A	<100	88,6	7 days	2470 min	5010
Cl		0,01	28 days	A	7080
			Mortar Bar Expansion, C-1038, %	Max 0.020	-

Test Data on ASTM Optional Requirements (C150)

			Physical Requirements (ASTM C-150, Table 4)		
Item	Limit	Results	Item	Limit	Result
Equivalent Alkalies (%)		0,44	False Set (C451)	Min 50	90

Additional Data (C150)

Item	Limestone Results	Base Cement Phase Composition	Result
SiO ₂ (%)	0,89	C ₃ S (%)	58,20
Al ₂ O ₃ (%)	0,38	C ₂ S (%)	13,70
Fe ₂ O ₃ (%)	0,19	C ₃ A (%)	6,20
CaO (%)	51,30	C ₄ AF (%)	10,20
SO ₃ (%)	0,01		

A: no limit applicable

D: if SO₃ exceeds 3.0%, C-1038 shall not be more than 0.020% at 14 days.

*Sample was taken under supervision of SGS representative.

**Test results relates only to the items tested.

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QUALITY MANAGER
AKÇANSA
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