

CANTERAS Y HORMIGONES SANTANDER S.L.

Bº La Venta s/n , Igollo de Camargo (Cantabria)

Tlf. 942/580861 Fax 942/580311

ANALYSIS REPORT

PORTLAND FLY ASH CEMENT EN 197-1 CEM II/B-V 42,5 R



1035-CPR-ES057513

		JANUARY-JUNE 2016			
COMMON CEMENT	NORMATIVE		EN 197-1 :2011		
	NAME	PORTLAND-FLYASH CEMENT	PORTLAND-FLY ASH CEMENT		
	COMMON CEMENT	CEM II/B-V 42,5 R	CEM II/B-V 42,5 R		
	PROPIERTIES	VALUE MEDIUM	REQUIEREMENTS		
SPECIFICATIONS	CHEMICAL	LOSS ON IGNITION	--		
		INSOLUBLE RESIDUE	--		
		SULFATE CONTENT (AS SO ₃)	2,54%	≤ 4,0%	
		CHLORIDE CONTENT (Cl)	0,04%	≤ 0,1%	
	PHYSICAL	EXPANSION	0,04 mm	≤ 10 mm	
		SETTING TIME	INITIAL	128 min	≥ 60 min
			FINAL	150 min	≤ 720 min
	MECHANICAL	COMPRESIVE STRENGTH	EARLY (2 DAYS)	28,1 N/mm ²	≥ 20 N/mm ²
			7 DAYS		--
			STANTARD (28 DAYS)	54,5 N/mm ²	≥ 42,5 N/mm ² ≤ 62,5 N/mm ²
COMPOSITION	PROPORTION BY MASS	CLINKER	77,83%	≥ 65% ≤ 79%	
		SILICEOUS FLY ASH	21,89%	≥ 21% ≤ 35%	
		MINOR	0,28%	≤ 5%	

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ANALYSIS REPORT

POZZOLANIC CEMENT EN 197-1 CEM IV/A-V 42.5 N/SR



1035-CPR-ES057513

		JANUARY-JUNE 2016			
COMMON CEMENT	NORMATIVE			UNE-EN 197-1 :2011	
	NAME		POZZOLANIC CEMENT	POZZOLANIC CEMENT	
	COMMON CEMENT		CEM IV/A-V 42,5 N/SR	CEM IV/A-V 42,5 N/SR	
	PROPIERTIES		VALUE MEDIUM	REQUIEREMENTS	
SPECIFICATIONS	CHEMICAL	LOSS ON IGNITION		--	
		INSOLUBLE RESIDUE		--	
		SULFATE CONTENT (AS SO ₃)		2,29%	≤ 3%
		CHLORIDE CONTENT (Cl-)		0,03%	≤ 0,1%
		POZZOLANICITY		SATISFIES THE TEST AT 8 DAYS	SATISFY THE TEST AT 8 DAYS
		C3A IN CLINKER		7%	≤ 9%
	PHYSICAL	EXPANSION		0,04 mm	≤ 10 mm
		SETTING TIME	INITIAL	154 min	≥ 60 min
			FINAL	177 min	≤ 720 min
		MECHANICAL	COMPRESIVE STRENGTH	EARLY (2 DAYS)	23,2 N/mm ²
7 DAYS				--	
STANTARD (28 DAYS)	48,4 N/mm ²			≥ 42,5 N/mm ² ≤ 62,5 N/mm ²	
COMPOSITION	PROPORTION BY MASS	CLINKER	70,02%	≥ 65% ≤ 89%	
		SILICEOUS FLY ASH	29,83%	≥ 11% ≤ 35%	
		MINOR	0,15%	≤ 5%	

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ANALYSIS REPORT

POZZOLANIC CEMENT EN 197-1 CEM IV/B-V 32.5 N/SR



1035-CPR-ES057513

		JANUARY-JUNE 2016			
COMMON CEMENT	NORMATIVE			UNE-EN 197-1 :2011	
	NAME		POZZOLANIC CEMENT	POZZOLANIC CEMENT	
	COMMON CEMENT		CEM IV/B-V 32,5 N/SR	CEM IV/B-V 32,5 N/SR	
	PROPIERTIES		VALUE MEDIUM	REQUIEREMENTS	
SPECIFICATIONS	CHEMICAL	LOSS ON IGNITION		No exigible	
		INSOLUBLE RESIDUE		No exigible	
		SULFATE CONTENT (AS SO ₃)		1,99%	≤ 3%
		CHLORIDE CONTENT (Cl-)		0,02%	≤ 0,1%
		POZZOLANICITY		SATISFIES THE TEST AT 8 DAYS	SATISFY THE TEST AT 8 DAYS
		C3A IN CLINKER		7%	≤ 9%
	PHYSICAL	EXPANSION		0,04 mm	≤ 10 mm
		SETTING TIME	INITIAL	180 min	≥ 75 min
			FINAL	208 min	≤ 720 min
	MECHANICAL	COMPRESIVE STRENGTH	2 DAYS		--
EARLY 7 DAYS			26,1 N/mm ²	≥ 16 N/mm ²	
STANTARD (28 DAYS)			38,07 N/mm ²	≥ 32,5 N/mm ² ≤ 52,5 N/mm ²	
COMPOSITION	PROPORTION BY MASS	CLINKER	56,73%	≥ 45% ≤ 64%	
		SILICEOUS FLY ASH	42,01%	≥ 36% ≤ 55%	
		MINOR	1,26%	≤ 5%	