



شركة البلتون والاسمنت
البالستان المحدودة

ATTOCK CEMENT PAKISTAN LTD.

QUALITY CERTIFICATE

Dated : 19.08.2019

We hereby Certify that our brand "FALCON CEMENT" Sulphate Resistant Cement Conforms and surpasses the Pakistan Standard PS-612-1989 & British Standard Specifications BS-4027-1980.

CHEMICAL COMPOSITION	FALCON CEMENT (SRC)	PS - 612-1989	BS - 4027/1980
Calcium Oxide, (CaO) %	63.45	-	-
Silicon Dioxide, (SiO ₂) %	20.33	-	-
Aluminium Oxide, (Al ₂ O ₃) %	4.45	-	-
Ferric Oxide, (Fe ₂ O ₃) %	5.40	-	-
Magnesium Oxide, (MgO) %	1.45	4.00 max.	4.00 max.
Sulphur Trioxide, (SO ₃) %	2.26	2.50 max.	2.50 max
Loss on Ignition, (L.O.I) %	0.21	3.00 max.	3.00 max
Insoluble Residue, (I.R)%	0.32	2.00 max.	1.50 max.
Sodium Oxide, (Na ₂ O) %	0.21	-	-
Potassium Oxide, (K ₂ O) %	0.51	-	-
Total Alkalies as Na ₂ O = (Na ₂ O + 0.658 x K ₂ O), %	0.54	-	-
Chloride, (Cl ⁻) %	0.012	-	0.10 max.
Silica Modulus (S.M)	2.06	-	-
Alumina Modulus (A.M)	0.82	-	-
Lime Saturation Factor (L.S.F)	0.94	0.66 - 1.02	0.66 - 1.02
Tri Calcium Silicate (C ₃ S)	59.74	-	-
Di Calcium Silicate (C ₂ S)	13.22	-	-
Tri Calcium Aluminate (C ₃ A)	2.67	3.50 max.	3.50 max.
Tetra Calcium Alumino Ferrite (C ₄ AF)	16.42	-	-
PHYSICAL TEST :			
Fineness (Blaine cm ² /gm)	3032	2500 min.	2500 min.
SETTING TIME :			
Initial (minutes)	123	45 min.	45 min.
Final (minutes)	180	10 hrs max.	10 hrs max.
Consistency (H ₂ O) %	26.10	-	-
Soundness Expn.(Le Chatlier mm)	0.75	10 max.	10 max.
COMPRESSIVE STRENGTH :			
3-Days N/mm ² (PSI)	35.65 (5170)	20.00 (2900) min.	20.00 (2900) min.
7-Days N/mm ² (PSI)	44.98 (6522)	29.50 (4278) min.	-
*28-Days N/mm ² (PSI)	55.64 (8068)	39.00 (5655) min.	39.00 (5655) min.

*last month 28-Days Compressive Strength.

HOD (QUALITY CONTROL)

Sr. GENERAL MANAGER (WORKS)

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