



شركة الاسمنت الفالكون
فalcon Cement

ATTOCK CEMENT PAKISTAN LTD.

QUALITY CERTIFICATE

Dated : 19.08.2019

We hereby Certify that our brand "FALCON CEMENT" Ordinary Portland Cement Conforms and surpasses the Pakistan Standard PS-232-2008 * (43 grade) & British Standard Specifications BS-12-1978.

CHEMICAL COMPOSITION	FALCON CEMENT (OPC)	PS-232 - 2008 * (43 grade)	BS - 12 - 1978
Calcium Oxide, (CaO) %	63.03	-	-
Silicon Dioxide, (SiO ₂) %	20.75	-	-
Aluminium Oxide, (Al ₂ O ₃) %	4.75	-	-
Ferric Oxide, (Fe ₂ O ₃) %	3.78	-	-
Magnesium Oxide, (MgO) %	1.46	6.00 max.	4.00 max.
Sulphur Trioxide, (SO ₃) %	2.45	3.00 max.	3.00 max
Loss on Ignition, (L.O.I) %	2.68	5.00 max.	3.00 max
Insoluble Residue, (I.R)%	0.34	3.00 max.	1.50 max.
Sodium Oxide, (Na ₂ O) %	0.22	-	-
Potassium Oxide, (K ₂ O) %	0.51	-	-
Total Alkalies as Na ₂ O = (Na ₂ O + 0.658 x K ₂ O), %	0.55	-	-
Chloride, (Cl ⁻) %	0.013	-	-
Silica Modulus (S.M)	2.43	-	-
Alumina Modulus (A.M)	1.26	0.66 min.	-
Lime Saturation Factor (L.S.F)	0.93	0.66 - 1.02	0.66 - 1.02
Tri Calcium Silicate (C ₃ S)	54.60	-	-
Di Calcium Silicate (C ₂ S)	18.30	-	-
Tri Calcium Aluminate (C ₃ A)	6.20	-	-
Tetra Calcium Alumino Ferrite (C ₄ AF)	11.49	-	-
PHYSICAL TEST :			
Fineness (Blaine cm ² /gm)	2798	2250 min.	2250 min.
SETTING TIME :			
Initial (minutes)	122	30 min.	45 min.
Final (minutes)	183	600 max.	600 max.
Consistency (H ₂ O)%	24.17	-	-
Soundness Expn.(Le Chatlier mm)	0.92	10 max.	10 max.
COMPRESSIVE STRENGTH :			
3-Days N/mm ² (Psi)	33.59 (4871)	23.00 (3335)	23.00 (3335)
7-Days N/mm ² (Psi)	42.71 (6192)	Optional 33.00 (4785)	-
*28-Days N/mm ² (Psi)	52.01 (7542)	43.00 (6235)	41.00 (5945)

*last month 28-Days Compressive Strength.

HOD (QUALITY CONTROL)

Sr. GENERAL MANAGER (WORKS)

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