



BOJNOURD CEMENT CO.

QUALITY CONTROL & LABORATORY DEPARTMENT



F08/6

Passport of Quality

Product	High Blaine Cement Very fine Such as Micro-silica , very high early and final compressive strength
Standard of Sample	*
Date of Report	July 2024

Chemical Analysis	Result	Standard Limitation ISIRI 389	Standard Limitation ASTM C150	Standard Limitation GOST 10178-85	Physical Analysis	Result	Standard Limitation ISIRI 389	Standard Limitation ASTM C150	Standard Limitation GOST 10178-85	
SiO ₂ (%)	19.00	*	*	*	Specific Gravity (ton/m³)		3.168	*	*	*
Al ₂ O ₃ (%)	4.10	*	*	*	Normal Consistency (%)		29.0	*	*	*
Fe ₂ O ₃ (%)	3.60	*	*	*	Setting Time Vicat test	Initial	120	*	*	*
CaO (%)	61.20	*	*	*		Final	02:40	*	*	*
MgO (%)	1.94	*	*	*	Soundness Expansion					
Na ₂ O (%)	0.38	*	*	*	Autoclave expansion (%)		0.04	*	*	*
K ₂ O (%)	1.09	*	*	*	Le Chatelier expansion (mm)		2	*	*	*
SO ₃ (%)	4.29	*	*	*	Sulfate Resistance 14 days exp.(%)		0.04	*	*	*
					Fineness					
Insoluble Residue (%)	0.64	*	*	*	Specific Surface, Blaine (cm²/g)		6250	*	*	*
Loss on Ignition (%)	4.60	*	*	*	Retained on 45 µ Sieve (%)		0.0	*	*	*
Free Lime (F.CaO) (%)	1.2	*	*	*	Strength Results, Compressive Strength (kg/cm²)					
Chloride (%)	0.02	*	*	*	1 Day		*	*	*	*
Equivalent Alkalies (%) (0.658*K ₂ O+Na ₂ O), Optional	1.10	*	*	*	2 Days		420	*	*	*
Lime Saturation Factor (LSF)	96.39	*	*	*	3 Days		480	*	*	*
Minerological Composition (Bouge Relations)					7 Days		525	*	*	*
C3S , Tricalcium Silicate (%)	59.82	*	*	*	28 Days		610	*	*	*
C2S , Dicalcium Silicate (%)	9.37	*	*	*	Heat of Hydration (cal/g), Optional					
C3A ,Tricalcium Aluminate (%)	4.77	*	*	*	7 Days		*	*	*	*
2C3A + C4AF	20.50	*	*	*	28 Days		*	*	*	*

Remarks :

Quality Control and Laboratory Management

Lot F₆



Plant Management

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