

TECHNICAL SHEET CLINKER

According to NF EN 196-2	
	ordinary Clinker
Silica Oxide %	$21 \leq \text{SiO}_2 \leq 23$
Aluminium Oxide %	$5 \leq \text{Al}_2\text{O}_3 \leq 6.5$
Ferric Oxide %	$3 \leq \text{Fe}_2\text{O}_3 \leq 5$
Calcium Oxide %	$\text{CaO} \geq 64$
Magnesium Oxide %	$\text{MgO} \leq 1.5$
Sulphur Trioxide-IR %	$\text{SO}_3 \leq 1$
Potassium Oxide %	$\text{K}_2\text{O} \leq 0.5$
Sodium Oxide %	$\text{Na}_2\text{O} \leq 0.4$
Chloride %	$\text{Cl}^- \leq 0.1$
Loss On Ignition % (PAF)	$\text{LOI} \leq 0.5$
Free Lime % (CaO libre)	$\text{F-CaO} \leq 1.5$
Bulk Density (Densité)	$1200 \leq B.D (5 \div 7) \text{ mm} \leq 1350$
Tri-calcium Silicate % Equation for C_3S ; $\text{C}_3\text{S} = 4.071 * \text{CaO} - (7.6 * \text{SiO}_2 + 6.72 * \text{Al}_2\text{O}_3 + 1.43 * \text{Fe}_2\text{O}_3)$	$\geq 58 \%$
Di-calcium Silicate %	$\text{C}_2\text{S} \leq 20$
Tri calcium Aluminate %	$6 \leq \text{C}_3\text{A} \leq 11$
Tetra calcium Alumino-Ferrite %	$9 \leq \text{C}_4\text{AF} \leq 16$
Insoluble Residues (Résidu insoluble) %	$\text{I.R} \leq 0.5$

Head of Quality Control

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Contrôle Qualité

CB