

Commodity: Quick Lime Powder

Physical Data :

Parameter	Value / Description
Name & Chemical Formula	Calcium Oxide - CaO
Synonyms (Trade Name)	Lime-Quick lime, Un-Slaked Lime, Industrial lime, Active Burnt Lime, Calcined limestone
Form & Color	White - Powder
Molecular Weight	56.08 (g/mole)
Bulk Density	700-900 (Kg/m ³)
Average particle Size	74 µm
Residue on sieve 170 Mesh (90 Micron)	0%
Residue on sieve 200 Mesh (74 Micron)	Less than 5%

- **Packing:** 25Kg , 3ply Laminated P.P Bag
- **Maintenance:** This product can be stored in a dry and covered place away from moisture for 2 years.

Activity:

Activity Parameter	Value
Initial T	20° C
Initial T rise at 30 sec.	30~35° C
T 60	< 1 min
T max	70° C
Total T rise	50° C
T Slaking	< 5 min

Chemical Analysis :

Component	Limit	Component	Limit
CaO	Min 85%	CaO (total)	Min 88%
CaO (Inactive)	Max 3%		
CaCO ₃	< 8.0 %	Na ₂ O	< 0.3 %
MnO	< 0.5 %	K ₂ O	< 0.2 %
MgO	< 1.0 %	SO ₃	Trace
SiO ₂	< 1.0 %	L.O.I	< 10.0 %
Al ₂ O ₃	< 0.5 %	Fe ₂ O ₃	< 0.5 %

Commodity: Quick Lime Powder (Mesh 70)

Identifications :

Parameter	Value / Description
Name	Calcium Oxide , Quick Lime
Linear Formula	CaO
Form	Powder
Molecular Weight	56.08 gr/mol
Specific Gravity	3.2 – 3.4
Density	700-1200 kg/m ³
PH	11- 12 at 20°C, saturated solution
Solubility in water	1330 mg/L sat.soln

Residual On Mesh... %WT :

Mesh Size	Percentage
NO.10 (2 millimetre)	Max 2%
NO.18 (1 millimetre)	Max 15%
NO.35 (0.5 millimetre)	Max 25%
NO.50 (0.3 millimetre)	Max 40%
NO.70 (0.2 millimetre)	Max 50%
NO.100 (0.15 millimetre)	Max 65%

Chemical Analysis :

Component	Limit	Component	Limit
CaO	88% < CaO < 90%	P ₂ O ₅	< 0.03%
CaCO ₃	3% < CaCO ₃ < 6%	MnO	< 0.02%
CaO (Free)	< 1.5%	Na ₂ O	< 0.1%
MgO	< 0.5%	K ₂ O	< 0.1%
SiO ₂	< 0.7%	SO ₃	Trace
Al ₂ O ₃	< 0.5%	L.O.I	< 3%
Fe ₂ O ₃	< 0.2%	SiO ₂ + Insoluble matter	< 1.3%

Commodity: Quick Lime Powder (Mesh 170)

Identifications :

Parameter	Value / Description
Name	Calcium Oxide , Quick Lime
Linear Formula	CaO
Form	Powder
Molecular Weight	56.08 gr/mol
Specific Gravity	3.2 – 3.4
Density	700-1200 kg/m ³
PH	11– 12 at 20°C, saturated solution
Solubility in water	1330 mg/L sat.soln

Residual On Mesh... %WT :

Mesh Size	Percentage
NO.170 (90 micron)	Max 10%

Chemical Analysis :

Component	Limit	Component	Limit
CaO	88% < CaO < 90%	P ₂ O ₅	< 0.03%
CaCO ₃	3% < CaCO ₃ < 6%	MnO	< 0.02%
CaO (Free)	< 1.5%	Na ₂ O	< 0.1%
MgO	< 0.5%	K ₂ O	< 0.1%
SiO ₂	< 0.7%	SO ₃	Trace
Al ₂ O ₃	< 0.5%	L.O.I	< 3%
Fe ₂ O ₃	< 0.2%	SiO ₂ + Insoluble matter	< 1.3%