

Calcined Kaolin

PRODUCT SPECIFICATION

GRADE NAME	CK 90	CK 91	CK 92	CK 93
Application	Paint, Paper, Coating, Ink & Adhesive, PVC Cables & Wires, Rubber, Plastic & Many More			
Pow. BR (%) ISO	90±1	91±1	92±1	93±1
Color Shade (on water panel)	White	White	Pure White	Ultra White
Bulk Density (gms/lit)	340-360	300-355	300-330	300-330
PH	5.0-7.0	5.0-7.0	5.0-7.0	5.0-7.0
Residue	0.20(400#)	0.2%(500#)	0.1%(500#)	0.1%(500#)
Oil Absorption (gm/100gm)	51-52	55-60	55-65	55-65
Hegman Grind	4.5+	5+	5+	5+
Specific Gravity	2.5 - 2.7	2.5 - 2.7	2.5 - 2.7	2.5 - 2.7
Loss on Drying (at 105°C/hrs)	0.5% max	0.5% max	0.5% max	0.5% max

CHEMICAL COMPOSITION

% SiO ₂	50-52	50-52	50-52	51-53
% Al ₂ O ₃	42-44	42-44	42-44	42-44
% Fe ₂ O ₃	0.5	0.5	0.5	0.5
% TiO ₂	1.5	1.5	1.5	1.5
% CaO	0.3	0.3	0.3	0.3
% MgO	0.2	0.2	0.2	0.2
% Na ₂ O	0.2	0.2	0.2	0.2
% K ₂ O	0.2	0.2	0.2	0.2
% L.O.I.	0.1	0.1	0.1	0.1

PARTICLE SIZE DISTRIBUTION (ON SEDIGRAPH 5100)

D(50) M	0.8-1.2 M	0.8-1.2 M	0.8-1.0 M	0.8-1.0 M
% Below 10 Micro	90 Min.	92 Min.	92 Min.	95 Min.
% Below 2 Micron	60 Min	62 Min.	65 Min.	67 Min.
% Below 1 Micron	50 Min.	50 Min.	50 Min.	50 Min.



Applications:

Calcined Kaolin for Paper Industry: Our grades are preferred as raw material to manufacture paper for coating and as a filler to reduce consumption of costlier wood pulp, it give brightness, smoothness & better printing.

Calcined kaolin for paint Industry: Our grades are used in satin and matt paints where they can deliver increased opacity, whiteness and scrub resistance. Calcined Kaolin is particularly useful as a partial replacement for TiO₂ pigment.

Calcined Kaolin for Coating Industry: Our grades are used to improve the mechanical properties such as the moisture resistance, impact resilience of the paint, the floatation resistance capacity of the pigment all can be improved.

Calcined Kaolin for Ink & Adhesives Industry: our grades can be applied to ink formulation as trophoplasm pigment because of the strong chemical inertness and almost without impurity and soluble salt

Calcined Kaolin for PVC Cables & Wires Industry: Our grades are used in the industry to improve electrical properties and as a functional additive material.

Calcined Kaolin for Ceramic Industry: Our grades are used to achieve strength, low iron and titanium to avoid color variation, and better shaping.

Calcined Kaolin for Rubber Industry: Our grades are adds strength, abrasion resistance and rigidity to rubber.

Calcined Kaolin for Plastic Industry: Our grades are used to achieve smooth surface, dimension stability, low shrinkage and cracking during compounding & forming.