



SAMRIDHI
PETROCHEM

FROM THE **EARTH.**
TO THE **WORLD.**

HYDROUS KAOLIN

HIGHEST MOISTURE CONTENT.



DISPERSION
PROPERTIES



HIGH
CHEMICAL
PURITY



HIGH
WHITENESS



SMOOTHNESS
& SURFACE
FINISH

Hydrous kaolin, also known as water-washed or soft kaolin, is a naturally occurring hydrated aluminium silicate mineral formed over millions of years through the hydrothermal decomposition of granite rocks. It is characterised by its fine particle size, plate-like structure, chemical inertness, and relatively high water content.

APPLICATIONS:



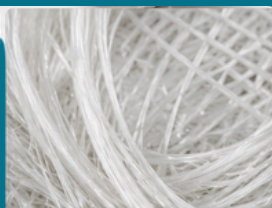
CERAMIC INDUSTRY



PAINT & COATING



PAPER & BOARDS



FIBER GLASS



INK & PIGMENT



WIRE & CABLE



RUBBER & PLASTIC



HYDROUS KAOLIN PROPERTIES

Properties	Unit	SP HK01	SP HK02	SP HK03	SP HK04
Optical Properties					
Brightness	%	82-86	80-84	78-82	84-88
Bulk Density	g/liter	0.25	0.35	0.25	0.3
Moisture Content (Max)	%	2	2	2	2
Specific Gravity		2.6	2.6	2.6	2.6
Oil Absorption gms/100 gms	gms/100g ms	35	35	42	38
Particle Size Distribution Sedigraph 5100					
Particle below 2 μ	%	92	75	98	80
Loss on Ignition at 1100°C	%	13.5	13.5	13.5	13.5
PH (10% Suspension)		7.5	7.5	7.5	7.5



CONTACT INFORMATION



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META KAOLIN

HIGH PERFORMANCE. ENHANCED STRENGTH.



HIGH
POZZOLANIC
ACTIVITY



IMPROVE
STRENGTH



HIGH
WHITENESS



LOWER
PERMEABILITY

Metakaolin is a high reactivity pozzolan produced by the calcination of kaolin clay at temperature of 700 to 850°C. This moderate temperature results in the transformation of the kaolin into metakaolin, which is characterized by an amorphous structure and enhanced reactivity.

APPLICATIONS:



CEMENT INDUSTRY



ADHESIVE & SEALANT



META KAOLIN PROPERTIES

Properties	Unit	SP MK 450
Optical Properties		
Brightness	%	86-91
Bulk Density	g/liter	0.3
Moisture Content (Max)	%	1
Specific Gravity	—	2.55
Oil Absorption	gms/100 gms	55
Particle Size Distribution (Sedigraph 5100)		
d50 (Median Size)	μm	3
Loss on Ignition at 1100°C	%	0.5-1.0
pH (10% Suspension)	—	6.5-7.5
Calcination Temperature	°C	700-850



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TO THE **WORLD.**

CALCINED KAOLIN

WITHSTANDS EXTREME TEMPERATURES.



ANHYDROUS



IMPROVE
STRENGTH



HIGH
WHITENESS



THERMAL
STABILITY

A fine, white clay mineral extensively used to improve whiteness, smoothness, consistency, and finish quality. Calcined kaolin is produced by calcination of hydrous kaolin clay between 900-1200°C. This process drives off water and other volatile components, transforming the clay into a new form.

APPLICATIONS:



PAINT AND COATING



PAPER & BOARDS



PLASTIC AND RUBBER



CERAMIC INDUSTRY



COSMETIC INDUSTRY



CONSTRUCTION



CALCINED KAOLIN PROPERTIES

Properties	Unit	SP CK 01	SP CK 02	SP CK 03	SP CK 04
Optical Properties					
Brightness	%	84-86	88-90	90-94	91-95
Bulk Density	g/liter	0.35	0.3	0.3	0.28
Specific Gravity		2.6	2.6	2.6	2.6
Moisture Content (Max)	%	0.5	0.5	0.5	0.5
Oil Absorption gms/100 gms	gms/100 gms	55	55	60	65
Particle Size Distribution Sedigraph 5100					
D50	(μ)	0.9	1.3	1	0.9
Particle below 2 μ	%	75	55	70	80
Chemical Composition					
SiO ₂	%	54	54	54	54
Al ₂ O ₃	%	43	43	43	43
Loss on Ignition at 1100°C	%	0.3	0.3	0.3	0.3
Ph (10% Suspension)		5.5	5.5	5.5	5.5



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