

KAOSMEC CLAY

SOIL & MOISTURE RETAINER & CONDITIONER

TYPICAL PRODUCT SHEET

Mineralogy: (Quantitative XRD – Bureau Veritas N6577XD15 dated 27 April 2015)

50% Kaolinite clay	[Al ₂ Si ₂ O ₅ (OH) ₄]
21% Quartz	[SiO ₂]
15% Mica	[X ₂ Y ₄ -6Z ₈ O ₂₀ (OH,F) ₄]
12% Clay	[Silicate]
2% Rutile	[TiO ₂]

Natural Sizing and Moisture Content: (Golder Associates Report R17900 dated 24 April 2015)

Sizing	%Passing
9.50mm	100%
2.36mm	99.8%
0.425mm	98.4%
0.075mm	92.9%
Moisture Content	8.8%

Washed Sizing: (Golder Associates Report R17900 dated 24 April 2015)

37.2 microns	88.0%
9.7 microns	75.4%
3.8 microns	58.0%
1.2 microns	37.5%

Salinity & pH: (ALS Report EM1503874 dated 24 April 2015)

pH (Saturated Paste)	2.8
EC (Saturated Paste)	3850 QS/cm

Chemistry: (ALS Report EM1503874 dated 24 April 2015)

Nitrate (NO ₃)	1.0 mg/kg
Phosphorus (P)	46 mg/kg
Potassium (K)	300 mg/kg
Zinc (Zn)	6 mg/kg
Copper (Cu)	11 mg/kg
Iron (Fe)	3100 mg/kg
Manganese (Mn)	<5 mg/kg
Boron (B)	<0.2 mg/kg
Chloride (Cl)	290 mg/kg
Organic Carbon (OC)	0.21%

Total Cation Exchange Capacity **4.60 meq/100gm**

Aluminium (Al)	1.00 meq/100gm
Calcium (Ca)	1.30 meq/100gm
Magnesium (Mg)	2.20 meq/100gm
Sodium (Na)	0.10 meq/100gm
Potassium (K)	<0.1 meq/100gm

Notes:

These test results are indicative of the material supplied. Natural variation in the deposit causes small changes in the material. Rainfall can affect the moisture content and salinity levels. The grading of "as supplied" product can be finer if requested.

Uses:

- Improve wettability of non-wetting sandy soils.
- Improve moisture retention of sandy soils.
- Moisture retention for improved plant growth.
- Reduce erosion by binding sand grains.
- Ideal for lining dams.

Spreading Rate:

- Recommend spreading of a fine, calm day to reduce drifting of fines.
- Able to be spread using a fertilizer spreader.
- A rate of 10t/ha is recommended for a fine to medium grained sandy soil.