

# CB MINERALS

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INDUSTRIAL MINERALS SINCE 1897

## SLURRY BENTONITE, P-TYPE

This slurry is specially designed for papermaking on modern, high speed machines. It is made using high swelling sodium Bentonite in a single component suspension of anionic nano-particles. Its chemistry is controlled by its very large surface area. Its physical properties can be controlled in the papermaking process. The P-Slurry is typically used in conjunction with starch as an aid in retention and drainage applications.

### CHEMICAL SPECIFICATION, DRY POWDER:

Bentonite is a naturally occurring, alkali silicate mineral

SiO <sub>2</sub>	60.3%
Al <sub>2</sub> O <sub>3</sub>	19.3%
Na <sub>2</sub> O	2.4%
L.O.I	4.4%

### PHYSICAL ANALYSIS:

Bentonite is composed of billions and billions of very small particles which readily delaminate in slurry

Color	off white
% Solids in Slurry	7%
Non-Colloids	less than 1% dry weight
pH	8.5 - 9.5
Cationic Exchange (meq/100 gm)	75 - 90
Particle Thickness	1.2 nanometer
Surface area, Total	800 m <sup>2</sup> /gr.

### ADVANTAGES:

Increased paper uniformity and dry strength  
Simple, single addition rather than balancing multiple additions  
Linearly scaleable performance  
Compatible current papermaking techniques  
Reduces or eliminates high priced polymers

**PACKING:** Bulk tanker trucks and RR cars or Totes

**ORIGIN:** USA