

CHARLES B. CHRYSTAL CO., INC

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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 ₂	60.3%
Al ₂ O ₃	19.3%
Na ₂ 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 ² /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