

## Sodium Polymetasilicate (SPM)

**Molecular Formula** | Na<sub>2</sub>O n SiO<sub>2</sub> n H<sub>2</sub>O

**Description**

The effective content is Na<sub>2</sub> O+SiO<sub>2</sub>, this cargo has good fluidity, lower energy consumption in slurry spray drying process and also in bulk density, the compatibility range is wide, can be with STPP make into low phosphorus powder, with 4A Zeolite and LABS to be concentrate non-phosphorus powder, use singly as non-phosphorus powder from high tower. The Ca<sup>2+</sup> exchange rate is to be 300, Mg<sup>2+</sup> is 310. Ability of getting rid of oil filth independency (20% solution).

**Characteristic**

To exchange Calcium and Magnesium capacity is higher than 4A Zeolite, it is equivalent to STPP, water soften speed is quick, soften capacity is strong and temperature scope is wide.

It is applicable to the slurry preparation, post-blending process. The product has good whiteness, fluidity and stability.

Good compatibility with many kinds surfactant (especially non-ionic surfactant), and with self-consistent stain removable ability.

It can be combined with STPP to produce low-phosphorus detergent powder.

It is easy to solute in water, 100ml water can solve more than 20g synthesis sodium silicate, dissolution is better than 4A Zeolite and STPP.

Effective and environmental protection, high performance to price, which can reduce the detergent powder cost.

Good characteristic of penetrate, emulsification, suspension and anti-deposit for stain, PH buffering capacity is strong.

To use APSM as the builder to produce non-phosphorus detergent powder, each technical index is accord with GB/T13171-2004.

| <b>ITEM</b>  | <b>INDEX</b>                  |
|--|-------------------------------|
| Appearance   | White Powder                  |
| Stacking density   | 0.35-0.45 g/cm <sup>3</sup>   |
| Na <sub>2</sub> O + SiO <sub>2</sub> content                         | 74% min                       |
| Insoluble matter in water  | 1.5% max                      |
| Whiteness (W=Y)  | 85% min                       |
| Ability of combining with Ca <sup>2+</sup> (CaCO <sub>3</sub> ) mg/g | 300 min                       |
| Ability of combining with Mg <sup>2+</sup> (MgCO <sub>3</sub> ) mg/g | 310 min                       |
| Granularity( through 20 mesh)  | 90 min                        |
| PH value(0.1% aq.sol, 25°C)  | 11.0 max                      |
| Packing  | IN 25KGS BAG and 26mts/20'FCL |