

sodium tripolyphosphate is used in a large variety of household cleaning products, mainly as a builder. It is used in laundry detergents and automatic dishwashing detergents (in powder, liquid, gel and/or tablet form), toilet cleaners, surface cleaners. Also used in human foodstuffs, animal feeds, industrial cleaning processes and ceramics manufacture. It provides a number of chemical functions including: sequestration of "water hardness", enabling surfactants to function effectively; pH buffering; dirt emulsification and prevention of deposition; hydrolysis of grease; and dissolving-dispersing dirt particles.

### Specifications

Na<sub>5</sub>P<sub>3</sub>O<sub>10</sub> 94 % min

P<sub>2</sub>O<sub>5</sub> 57 % min

Insoluble in Water 0.1 % max

Phase I 20-40

Iron (Fe) 0.005% Max

pH Value 9.2-10.2

Bulk Density (gm/ml) 0.7-0.10

Whiteness 85% min

Other Phosphates 5% max

Loss of Ignition (at 500OC 0.5% max

Moisture 1% max

## Sieve Test

Retained 18 mesh      0.1% max

Retained 40 mesh      5% max

Retained 100 mesh    15% max

Retained 230 mesh    50% max

## Rate of Hydration (ROH)

After 1 min            87OC- 92OC

After 5 min            91OC – 94OC