

## SODIUM METASILICATE

**Molecular formula** | Na<sub>2</sub>O, SiO<sub>2</sub>, XH<sub>2</sub>O, X refers to 0, 5 or 9

**Characteristics** | Sodium metasilicate pentahydrate and Sodium metasilicate nonahydrate are white powder solid crystallization. Sodium metasilicate has strong alkalescence and decontamination ability, good dispersiveness and emulsification nature, which is easy to dissolve in water, uneasy to dissolve in ethanol. It can absorb moisture in air and carbon dioxide to cause deliquescence. It can replace S.T.P.P. in the composition of high-efficient detergent and metal detergent to reduce the pollution in environment caused by S.T.P.P. It also offer fine alkaline buffer and antiseptic protection to metal (zinc, aluminium, etc). It has certain function softening water.

**Technical index** | HG/T2568-1994

ITEMS	Index				Beadlike sodium metasilicate	
	Type I			Type II	Technical index	
	High-class	First-class	Qualified			
Total alkali amount (counted with Na <sub>2</sub> O) %	28.0~30.0	28.0~30.0	28.0~30.5	20.0~23.5	Na <sub>2</sub> O %	50.50±1.00
Content of Oxidize silicon (counted with SiO <sub>2</sub> ) %	27.0~29.0	27.0~29.0	27.0~29.0	19.0~23.5	SiO <sub>2</sub> %	46.00±1.00
Iron content (counted with Fe) % ≤	0.01	0.05	0.08	0.05	CO <sub>2</sub> %	≤1.66
Water Insoluble % ≤	0.15	0.30		0.30	Fe	200ppm
whiteness % ≥	85	80		70	Pileup density (g/cm <sup>3</sup> )	0.98~1.23
					granularity (20~65 u) %	93.0
					Dissolving speed (5% liquor under 21°C)	80
					Appearance	White, even, beadlike

*Note: Type I is Sodium metasilicate pentahydrate; Type II is Sodium metasilicate nonahydrate*