

Luoyang Qihang Chemical Industrial Co.,Ltd

Product name: Complex Sodium Disilicate

The best placement of STPP and 4A Zeolite Molecular Structure: Na2O.2SiO2



[APPLICATION] :

Complex Sodium Disilicate is widely used as STPP Substitute in detergent powder making such as concentrate detergent powder, Ordinary detergent powder, Phosphorus-free washing powder, Metal-washing powder. These detergent powders all can be washed by hand or washing machine. It is mainly applied in high-tower spray dried technology.

ltem	Unit	Standard	Inspection
Appearance		white,granule	white,granule
whiteness	%	≥ 85.00	90.00
Ca exchange capacity(CaCO ₃)	mg/g	≥ 400	430.00
Na ₂ O	%	≥ 20	33.40
Na ₂ O + SiO ₂	%	≥ 50	63.70
PH	25°C1%solution	≤ 12.50	11.89
Bulk Density	g/ml	0.48-0.60	0.53
Water insoluble	%	≤ 1.50	0.80
Moisture	%	≤ 5	3.40

[Specification]:

Luoyang Qihang Chemical Industrial Co.,Ltd (China) Luoyang City, Henan Province, China

Contact: infoqiang@gmail.com/chloeqihang@hotmail.com

[COMP ARISON WITH OTHER DETERGENT BUILDERS]:

Chart 1: comparison of major detergent builders

	Sodium	4A ZEOLITE	Complex Sodium		
	Tripolyphosphate		Disilicate		
Environment protection	With phosphorus	Phosphorus free	Phosphorus Free		
Solubility	Soluble	Insoluble	Soluble		
Pollution	Sewage	Mud	sewage		

Chart 2: phosphorus free builder function comparison

	4A ZEOLITE	Complex Sodium Disilicate
Ca exchange ability mgCaCo3/g	285	> = 400
Acidity proof ability MI/0.5mol Hel	12	135
Soften water	Lon exchange	Lon exchange
Treatment		Chemical reaction
		forming precipitates
Solubility	Insoluble	Full soluble
Pollution	More mud	sewage

[Features]:

- 1. Complex Sodium Disilicateis the best in current phosphorus-free detergent builders, the function is almost same as STPP. It is the best replacement of STPP at present.
- 2. Complex Sodium Disilicate is completely friendly to each while STPP caused serious pollution.
- 3. Complex Sodium Disilicate has an excellent solubility in water, even cold water, better than STPP.
- 4. The price of Complex Sodium Disilicate is much lower than that of STPP
- 5. Complex Sodium Disilicate can be used same as STPP in producing process, without any change in equipment.
- 6. Complex Sodium Disilicate is the top cost performance non-phosphorus detergent that is widely used in leather washing and metal cleaning.
- 7. Complex Sodium Disilicate reduced the phosphor pollution while driving environment protection.
- 8. Complex Sodium Disilicate mainly used for washing powder, it accounts for it accounts for about 40% of the weight.