

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]:

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[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.