

Taian Green Industry Co., Ltd.

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TECHNICAL DATA SHEETS

1. Product name:

Oleamidopropyl betaine

2. Chemical Name:

OAB 40;

Oleylamidopropyl betaine;

Oleamidopropyl dimethyl glycine;

N-oleoylamidopropyl-N,N-dimethyl betaine

3. CAS No.:25054-76-6

4. MF:C₂₅H₄₈N₂O₃

5. MW:424.67

6. Technical specifications

| Item | Specifications | Results |
|-----------------|--|----------|
| Appearance | Yellow transparent liquid | Conforms |
| Solid content | 38~42% | 40.6% |
| Sodium chloride | ≤6% | 4.7% |
| pH value | 6~8 | 6.5 |
| Viscosity | ≥50mPa.s | 58mPa.s |
| Conclusion | The results conforms with enterprise standards | |

7. Usage

Oleamidopropyl betaine has mild properties, good foaming and foam stability, and can reduce the anionic surfactant irritancy; it has good compatibility with anionic, cationic, nonionic and amphoteric surfactants.

Oleamidopropyl betaine has good antistatic properties, antibacterial properties, good biodegradability, very low biotoxicity; strong salt and hard water resistance.

Oleamidopropyl betaine is used as a thickener, conditioner, wetting agent, antibacterial agent, antistatic agent, etc. in daily chemical or other industrial fields. It can also be used as an oil-based main agent, thickener, viscoelastic surfactant and oil displacing agent.

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Oleamidopropyl betaine and crude oil can reach an ultra-low interfacial tension of the order of $10^{-3} \text{mN} \cdot \text{m}^{-1}$. As a chemical flooding agent, the prospect is broad. In the salt solution or acid solution of different pH values, the concentration of hydrochloric acid decreases with the concentration of hydrochloric acid. As the pH increases, the viscosity of the system increases rapidly, forming different strength viscoelastic solutions or gels, which are used as cleaning fracturing fluids, self-steering acids, and viscoelastic surfactants (VES).

Oleamidopropyl betaine is used in the self-turning acid system to function as a mucic acid, a self-steering acid and a slow-acting acid. In the application of shunt acidification in heterogeneous reservoirs, the acid system automatically becomes sticky with the acid rock reaction, which has the function of shunt acidification and does not cause secondary damage to the formation.

Oleamidopropyl betaine is used in viscoelastic surfactant (VES) system. It is easy to prepare and easy to construct, high viscosity, high elasticity, automatic steering, low friction, low acid loss, high stability (resistance to salt), easy to return No residue, no damage to the formation.

Oleamidopropyl betaine is about 60°C , which is a heterogeneous reservoir of medium-low temperature reservoirs and a medium-low permeability reservoir. It is an ideal viscoelastic surfactant for stimulation and transformation.

Oleamidopropyl betaine can be used in oil and gas field drilling, acidification, fracturing, oil displacement and other fields, and has achieved good results in many oilfield applications in China and abroad.

8. Package

200kg/drum