



CORE TECHNOLOGIES

- I. ***CONDENSATION REACTIONS:*** **CORROSION INHIBITORS**
 1. Alkyl Amidoamine: 1:1 (**NS-7032**)
 2. Aminoethyl Imidazolines: 1:1 (**NS-7030**)
 3. Amido Imidazolines: 2:1 (**NS-7020** & **NS-7025**)
 4. Polyamido-Imidazoline (**NS-7000**)
 5. Hydroxyethyl Imidazoline: 1:1 (**NS-7164**)
 6. Bis-Imidazoline (**NS-7068**)
- II. ***QUATERNIZATION (ALKYLATION) REACTIONS:*** **CATIONIC SURFACTANTS**
 1. Coco Benzyl Quat (**NS-7126** & **NS-9126**)
 2. Coco Bis-Quat (**NS-7500** & **NS-7570**)
 3. Alkyl Pyridine Quat (in development)
- III. ***QUATERNIZATION (ALKYLATION) REACTIONS:*** **AMPHOTERIC SURFACTANTS**
 1. Cocamidopropyl Betaine (**NS-9269**)
 2. Cocamidopropyl Hydroxysultaine (in development)
 3. Cocamidopropylamine Oxide (in development)
- IV. ***PHOSPHATE ESTERIFICATION REACTIONS:*** TEA Phosphate Ester (**NS-8000**)
- V. ***MANNICH REACTIONS:*** **SCALE INHIBITORS**
 1. High Brine Phosphonic Acid (**NS-8780**)
 2. DETA Phosphonic Acid (**NS-8113**)
 3. BHMT Phosphonic Acid (**NS-8065**)
 4. ATMP Phosphonic Acid (**NS-8039**)
 5. Acid Inhibitors (in development)
- VI. ***NEUTRALIZATION REACTIONS:***
 1. Neutralization of the Phosphonic Acids listed above
 2. Neutralization of Soft DDBSA (**NS-5411**)
- VII. ***CYCLIZATION REACTIONS:*** Triazine H₂S Scavenger (**NS-1509**)
- VIII. ***PROPRIETARY SURFACTANT BLENDS:***
 1. Paraffin Dispersant & Demulsifier (**NS-9881**)
 2. Foamer Bases (**NS-9300**, **NS-9305** & **NS-9310**)
 3. Pour Point Depressants (**NS-1244** & **NS-1245**)