Exion® Selective Separation Systems

The Exion® Selective Separation System is a technology that provides a unique and highly improved extraction and separation of emulsified, entrained and dissolved contaminants that is significantly superior to any other conventional device such as water washing or liquid scrubbing. Conventional approaches to washing or scrubbing are often limited by contact efficiency and subsequent separation efficiency, resulting in limited performance, high water use (or scrubbing media) and large capital investments. Exion® was developed utilizing advanced micro-fiber contacting technology specifically designed to create a single stage, high efficiency structured extractor-separator with unmatched efficiency.

The Exion® system may be applied to the selective separation of a wide range of soluble components from liquid hydrocarbon streams for as little as 20% of the capital costs of conventional systems. Exion™ can be used for removal of contaminants including:

- Precious Metals
- Caustic Removal
- Salts Removal
- Ammonia Removal
- Chemical Additives
- Reaction By-products
- Amines Recovery
- BTEX Removal

Exion® can be used in a variety of applications:

- Gas and Liquids
- Natural Gas
- Condensates
- NGL, LPG and LNG
- Intermediates
- Refined Products

The Exion® system can also be used in combination with chemical technologies. The upstream injection of additives is followed by the Exion™ contactor/extractor stage, mixing and phase separation of the extract phase. This provides a unique hybrid treating solution that removes unwanted by-products and liquids.

Applied to batch chemical processes, the Exion® system increases process speed and operational flexibility. Traditional approaches to neutralization or product washing require a lengthy neutralization or wash step followed by decanting and transfer; not only do these steps slow reactor turnover, they also frequently result in carry-over of salts and impurities. Exion® allows direct neutralization and/or water washing to proceed on-line during product transfer.

For additional information about Nexo Solutions please contact us via email at info@nexosolutions.com or also visit our website at www.nexosolutions.com