

Treating your unique needs

Get more out of your natural gas operations
with specialty solutions and services

DOW

®



Dow offers one of the broadest product portfolios to remove contaminants from natural gas, allowing us to customize selectivity and efficiently treat gas based on your unique specifications. Our UCARSOL™ Solvents and SELEXOL™ Solvents remove H₂S, CO₂ and trace sulfur and are backed by more than 1,400 references worldwide. Converting an existing amine unit to one of our specialty amine products can help you **reduce energy consumption, increase capacity and reduce maintenance costs.**

Our technical services can help you further optimize performance, from in-house simulation software and pilot plants to analytical reports available in a simple-to-use online platform. Solvent analyses can include:

- Amine concentration
- Acid gas loadings
- Heat-stable salt concentration
- Foaming tendency
- Ion chromatography for heat-stable salt anions
- ICP and atomic absorption metals analyses
- Gas chromatography
- Corrosion monitoring and other specialized analyses



Specialty products to **meet unique specifications**

If you're looking for...

We recommend...

CO₂ removal

UCARSOL™ AP series offers a range of products for CO₂ removal that meet your specific gas treating needs, from pipeline to cryogenic specifications, or lower.

H₂S removal

Including acid gas enrichment and tail gas treating

UCARSOL™ HS series offers economical, proven options where selective separation of CO₂ and H₂S is required.

Mercaptan removal

UCARSOL™ Hybrid series is an innovative option for applications where mercaptan removal is required along with H₂S and/or CO₂ removal.

Bulk removal of acid gas

SELEXOL™ products are cost-effective options for those seeking bulk removal of CO₂, H₂S, and trace sulfur.

Liquid hydrocarbon treatment

Certain **UCARSOL™ products** are designed to minimize hydrocarbon co-absorption, making them ideal for liquid/liquid treating applications.

We're here to help you get more out of your operations.

- 65+ years of gas treating experience
- More than 1,400 references worldwide
- Global distribution network
- Global technical service team operating locally
- Range of in-depth analytical capabilities
- Broad portfolio to address unique needs
- Largest manufacturer of ethanolamines, isopropanolamines and alkanolamines in the world today

Specialty services to **optimize performance**

We offer an array of services in addition to the extensive analytical testing described. These complimentary services include:

- Advanced simulation tools to minimize CAPEX at new facilities
- Plant surveys to optimize performance at existing facilities
- Routine analysis, process monitoring, and troubleshooting
- Simple-to-use online platform to access analytical data
- Assistance in establishing testing capabilities at your site
- Access to world class pilot plant
- Operations training
- Emissions management

Contact us for a system evaluation using our proprietary in-house simulation tools. Alternatively, you can model our most commonly used solvents in commercial software packages – ProMax®, a registered trademark of Bryan Research & Engineering, LLC and ProTreat®, a registered trademark of Optimized Gas Treating, Inc.

A product portfolio **beyond solvents**

Gas treating chelates for redox technology

When amines are used to remove hydrogen sulfide from natural gas, chelates may be required to convert the resulting concentrated H₂S stream into elemental sulfur. We offer IC chelates and process conditioning agents to help abate the H₂S by direct conversion. Chelates can also be used for the direct removal of low levels of H₂S from natural gas streams for conversion to elemental sulfur.

UCARKLEAN™ System for efficient cleaning

We developed our UCARKLEAN™ products as a cost-effective option to remove foulants from your amine unit. Our system removes scale, grease and the hydrocarbon-agglomerated iron sulfide foulant common to amine systems while offering advantages to other cleaning methods today.

The UCARKLEAN™ system offers important advantages over other cleaning methods:

- Simple to use– just mix and dilute with water in your system
- Improved cleaning properties for scale, sludge and grease
- Non-flammable and non-caustic
- Contains no heavy metals
- No neutralization or equipment disassembly required
- Smooth, uneventful start-up after cleaning

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