

GAS/SPEC® amines for H₂S and CO₂ removal

Amines are used to remove H₂S and CO₂ from crude gas and oil streams. We offer both generic (MEA, DEA and MDEA) and specialty amines (under the trade name GAS/SPEC®) from our business partner INEOS Oxide. The range of amines allows you to choose the performance option you need, like selective removal of H₂S over CO₂, deep H₂S removal or partial removal of organic sulfur compounds.

The Advantages

Increased plant capacity

GAS/SPEC® specialty amines are typically used in concentrations up to 55 wt.% instead of the maximum 20 wt.% for i.e. MEA. Higher amine concentration translates in more amine for acid gas pickup per volume of solution.

Reduced energy costs

GAS/SPEC® specialty amines provide greater gas treating capability, thus reducing circulation rates and energy consumption. Moreover, energy is saved in the reboiler, allowing for less energy required to strip the acid gas.

Reduced maintenance

Systems using MEA or DEA can experience corrosion problems. GAS/SPEC® products are used at higher concentrations with less potential to cause corrosion.

Reduced capital costs

As GAS/SPEC® specialty amines are more efficient than generic amines, new plants or improvements can be designed on a smaller scale, resulting in reduced capital costs.

Increased flexibility

The GAS/SPEC® range of products allows you to meet the latest environmental/ emission targets in Europe.



**FOR THE RIGHT
OIL AND GAS CHEMISTRY**



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Products and Applications

GAS/SPEC® SRS

- Refinery systems, Natural gas treating;

GAS/SPEC® SS

- Refinery systems, Tail gas treaters, Natural gas treating;

GAS/SPEC® SS-3

- Refinery systems, Natural gas treating;

GAS/SPEC® SS-4

- Natural gas treating;

GAS/SPEC® TG-10

- Tail gas treaters;

GAS/SPEC® CS-1

- Natural gas treating, LNG and LPG treaters;

GAS/SPEC® CS-3

- Natural gas treating;

GAS/SPEC® CS-1000

- Synthesis gas;

GAS/SPEC® CS-Plus

- Refinery hydrogen unit, Synthesis gas, Ethane treating, Coal seam gas;

GAS/SPEC® CS-2000

- Refinery hydrogen units, Synthesis gas, Ammonia production, Natural gas treating, Ethane treating, Coal seam gas.

Application Examples

Natural gas treating

In addition to H₂S removal, CO₂ is removed to meet certain specifications, to minimize corrosion in the pipeline or to meet specific target heating values.

Refinery systems

Increased selectivity can reduce the load on the sulfur plant by improving the H₂S content of the acid gas. Increased capacity to carry acid gas keeps the amine system debottlenecked when facing increasingly stringent sulfur specifications on gasoline and diesel fuel products.

Cryogenic or LPG plants

GAS/SPEC® specialty amines can remove more economically the CO₂ and H₂S to the same level, or a greater level, than generic amines to avoid freezing while entering cryogenic or LPG plants.

Tail gas treating applications

Insufficient H₂S pickup can result in emissions violation and too much CO₂ pickup can cause overloading of the sulfur plant.

Synthesis gas applications (e.g. H₂ and NH₃ production)
CO₂ must be removed to extremely low levels to avoid affecting downstream processes.



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