



If There's A Leak, We'll Find It!

Tracer Tight® leak detection is one of the most advanced technologies for aboveground storage tanks and pipelines.



Tracer Tight leak detection is an industry recognized test method with precision sensitivity and compatibility with site operations. This method can locate leaks without any disruption of service, even in the largest of bulk storage tanks and the most complex of piping systems. Linde Services Inc. (Linde) provides *Tracer Tight* leak detection to a variety of facilities including but

- not limited to:
- Military Bases
 - Pump Stations
 - Terminals
 - Chemical Plants
 - Airports
 - Pipelines
 - Manufacturing Plants
 - Refineries
 - Tank Farms

How it works

The *Tracer Tight* method is a patented system for inoculating a tank or pipeline with a small amount of tracer chemical. Probes are installed under and around the tank or pipeline allowing the *Tracer Tight* service technician to collect and analyze soil vapor samples. If a leak occurs, tracer is transported to the soil where it is easily detected by gas chromatography. Using this process, Linde can identify and locate leaks as small as 1 gallon per day regardless of the size of the tank. The *Tracer Tight* leak detection method is effective for all types of installations, including tanks and pipes buried under pavement, concrete or buildings.

Tracer Tight Service Advantages

- In-service testing of tanks and piping to save time and money
- Finds leaks without excavation
- Double bottom tanks can also be tested
- Compatible with hydrocarbons, most chemicals and service water
- Not affected by hydrocarbons in soil from previous leaks or spills
- Probes remain in place for future inspections
- Tracer A has approval from ASTM (ASTM D1655), and from U.K. Ministry of Defence (DEF STAN 91-091) for use in Jet A
- Process is third-party certified and listed under U.S. EPA National Work Group on Leak Detection Evaluations (NWGLDE)

Linde Services, Inc. has the innovative applications and expertise to help you optimize your operations and reduce downtime with extensive service offerings for refineries, chemical plants, terminals and pipelines. Our offerings include:

- Purging and Inerting
- Accelerated Cooldown
- Inert Entry Support
- Hot Nitrogen
- Backup Hydrogen Supply
- SANDJET™ Cleaning
- Product Displacement
- Tool Propellant
- Drying and Purging
- Blanketing
- Pneumatic Pressure Testing
- *Tracer Tight*® Leak Location
- *SeeperTrace*® Leak Location
- *HeliTec*® Leak Detection
- Specialty Services
- Temporary Gas Supply
- Dry Ice Blasting



Placement of Probes

A unique, proprietary method of locating probes horizontally under tanks and vertically above the piping systems is completely safe and noninvasive.

Inoculation

Tracer Tight trace gas is introduced into the tank or piping.



Background Sampling

Soil gas samples are taken before tracer is introduced into the system to verify no other similar compound is present.

Leak Simulation

A separate tracer gas may be used as a quality control measure and to determine soil permeability.



Sample Collection

After tracer has dispersed through the system, a Linde technician collects soil gas samples from the probes.

Sample Analysis

A gas chromatograph analyzes samples for the presence of the tracer gas. Detection of the tracer gas under the tank may indicate a leak is present.

For more information, call **1-844-44LINDE** or visit us online at www.lindeus.com/industrialservices.

Linde
10 Riverview Drive
Danbury, CT 06810
Phone 1.844.44LINDE (1.844.445.4633), Fax 1.800.772.9985; 716.879.2040
www.linde.com