



ITLS Information Sheet



Helium Leak Mass Spectrometers used in Leak Testing.

ITLS Visual Inspection and Leak Testing Services include:

- Visual Inspection
 - Direct at 1X mag.
 - Direct at higher mag.
 - Remote
- Leak Testing
 - MSLD (Helium Leak)
 - PCT (Pressure Change)
 - BT (Bubble Test)
 - HLT (Halide Leak Test)

Nondestructive Examination Services – Visual Inspection and Leak Testing Services

Visual Testing (VT) and Leak Testing (LT) is two (2) specific nondestructive test methods that have a variety of applications.

To be effective in supplying these services, inspection personnel competency needs to be at a high level. Our AWS-CWI's, and NDT Level II's and III's meet these requirements.

Visual (VT) Examination

When performing Visual Examinations (VT) Testing, the knowledge of inspection techniques, e.g., (direct, remote, with / without magnification) is critical.

As important, is the training and knowledge about what you're looking at; such as, e.g., (welds, bolting, or pumps and piping supports).

Personnel competency is measurable. A customer should have AWS-CWI's; ASNT Level III's and NAVSEA Examiners available when needed.

Leak Testing (LT) Examination

There are a number of different types of Leak Testing (LT) techniques. The application of these techniques, varies, and requires different testing approaches.

Discerning and measuring 1/100 part helium in 1,000,000 parts air is showing the ability of finding a "small" leak. This approach is far from conventional hydrostatic or pneumatic testing.

Personnel competency in leak testing (process and applications) is mandatory.



"The combination of our experience, training, education and resources allows us to support your VT and LT testing needs."



(above) – 3D VT image (magnified) of crack in a stamping (below) remote VT of the I.D of a pipe weld with oxidation "sugaring".

