
# Introducing the Mudgas Tube®

Though mudgas sampling has become a fairly standard offering on-rig, it has remained relatively unchanged for nearly 20 years. And for good reason. It is a valuable tool and samples are easy to collect. We don't want to complicate that process. We merely want to improve upon it by offering an upgrade to existing technology. The new Mudgas Tube adds clarity to an otherwise obscured sampling technique, with our new TRANSPARENT sampling vessel.

Mudgas Tubes utilize existing equipment often already available on-rig, and require little to no procedural changes for sample collection or shipping of such samples.

Smaller 25 Tube HAZMAT shipper provided

Septum cap for sample extraction

Other advantages afforded by this new technology, focus on their use in the laboratory. Because increased sample throughput can result in faster turnaround times, we wanted to provide a way to utilize these containers in automated analytical equipment. We feel our new valve accomplishes this.

Auto-sampler compatible

**Highlights:**

- Backward compatible with existing mudgas manifolds
- No major procedural changes
- Familiar, inert materials
- Optimized for use in the lab (auto-sampler compatible)
- Nearly all volume is extractable (via water displacement)
- No hydrogen generation
- No new shipping hurdles; UN2037 restrictions apply
- Transparent, so one can easily identify contamination/mud/water
- Manufactured from robust materials
- Compact packaging; 25 containers per box in a more compact design
- 100% Recyclable

Easily identify contaminants

MUDGAS TUBE®

TRANSPARENT GAS SAMPLING RECEPTACLE

WWW.MUDGASTUBE.COM

COLEMAN@MUDGASTUBE.COM (217) 649-9933

**Data produced from samples collected in Mudgas Tubes are comparable to data from samples collected utilizing other familiar mudlogging techniques.**

**Compositional data comparison of 1000 ppm standard between Lab #1 & Lab #2**

| | C1 | C2 | C3 | iC4 | nC4 | iC5 | nC5 | $N_2$ | $O_2$+Ar |
|---|---|---|---|---|---|---|---|---|---|
| **ACTUAL** | 0.101 | 0.100 | 0.100 | 0.103 | 0.098 | 0.100 | 0.100 | 78.42 | 20.88 |
| **Lab #1** | 0.098 | 0.101 | 0.102 | 0.093 | 0.081 | 0.076 | 0.067 | 78.63 | 20.73 |
| **Lab #2** | 0.099 | 0.104 | 0.096 | 0.099 | 0.086 | 0.083 | 0.075 | 79.14 | 20.15 |

**Comparison of field collected samples using standard mudlogging equipment.**
***sample depths are not identical, as samples were collected in series**

| Sample type | Depth | C1 $\delta^{13}C$ | C2 $\delta^{13}C$ | C3 $\delta^{13}C$ | $CO_2$ $\delta^{13}C$ | C1 $\delta D$ |
|---|---|---|---|---|---|---|
| Mudgas Tube | 7670 | -33.7 | -25.7 | -25.0 | -6.3 | -142.0 |
| IsoTube | 7680 | -35.0 | -25.1 | -23.9 | -7.1 | -143.0 |
| Mudgas Tube | 7700 | -34.9 | -24.8 | -24.6 | -7.7 | -140.0 |
| IsoTube | 7705 | -34.8 | -24.1 | -23.4 | -6.2 | -141.0 |
| Mudgas Tube | 7710 | -34.9 | -24.5 | -24.0 | -7.1 | -144.0 |
| IsoTube | 7730 | -34.8 | -24.6 | -24.0 | -7.5 | -150.0 |

***Data provided by and in cooperation with Applied Petroleum Technology**

**Stay tuned for other new products under development :**

**-Variable volume Mudgas Tubes®**
**-Self-sampling CO2ubes™**
**-Borosilicate Mudgas Tubes**

**Products from:**

Oliquot, ltd.™

Receptacles for gases and other fluid samples

**Al·i·quot**
/ˈalə,kwät/
noun
a portion of a larger whole, especially a sample taken for chemical analysis or other treatment