

SF6 Verify

proving your SF6 analysis

from the world leaders in SF6 analysis and handling



EMT's new Verify range of precision SF6 gas verification products set the industry benchmark in quality and stability for proving your SF6 analysis.

EMT Quality

- EMT Verify offers the most complete SF6 verification gas mixture for peace of mind ensuring results confidence when using your SF6 gas analyser.
- EMT Verify gas standards can be used with all types of SF6 analyser.
- EMT Verify meets NIST* quality standards and all gases come complete with NIST* traceable certificates of analysis.

EMT Value

- The EMT Verify starter kit provides users with a complete and easy to use start up kit for proving your SF6 analysis.
- EMT Verify provides exceptional verification gas products and services at competitive prices.
- EMT Verify gives customers the highest level of technical-added-value with quality, reliability and technical excellence at the heart of its service.

*NIST = National Institute of Standards and Technology

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CERTIFICATE OF ANALYSIS

Date: July 31, 2015
Order Number:
Lot Number:

Customer: Energy Maintenance Technologies Ltd
Use Before: 10/31/2016

| Component | Specification (+/- 10%) | Analytical Result (+/- 2%) |
|----------------|-------------------------|----------------------------|
| Sulfur Dioxide | 75 PPM | 77 PPM |
| Nitrogen | Balance | Balance |

Cylinder Size: 2.0 Cu. Ft.
Contents: 58 Liter

Valve: 5/8" - 18UNF
Pressure: 500 psig

NIST Weight Certificate Number(s): 240756-1

The calibration gas prepared by EMT is considered a certified standard. It is prepared by gravimetric or partial pressure techniques. The calibration standard provided is certified against EMT's G.M.I.S. (Gas Manufacturer's Intermediate Standard) which is either prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

TECHNICAL RECOMMENDATIONS
For best results, use the following procedure when using Reactive Gas Mixtures and always use the shortest length possible of Teflon Tubing between the Cylinder Regulator Hose Barb and the Gas Detection Instrument. Turn the regulator on before connection is made with the cylinder, allowing any trapped air to be purged from the regulator. Be sure to turn the regulator off soon as the regulator is fully connected. Always ensure delivery tubing is compatible with the Gas. Do not store this cylinder off as the regulator installed due to possible leakage or long-term reaction with internal components of the regulator. Follow instrument manufacturer's instruction manual.

Analyst:

Certificate of analysis



Specialisation

EMT's vast experience and technical knowledge enables us to offer the most difficult reactive gas mixtures with confidence and our guarantee of quality and stability.

EMT SF6 Verification Gas Check

EMT Starter Kit (VGAS-SK-3)

The EMT Starter Kit comprises of:

- 1 x 99.99% SF6
- 1 x 200 ppm H2O
- 1 x 75 ppm SO2
- 1 x Dial-A-Flow Regulator
- 1 x Carry case

Verification Refill Gases

- SF6 (part number VGAS-SF6-99-2)
- H2O (part number VGAS-SO2-75-2)
- SO2 (part number VGAS-H2O-200-2)



| Part Number | Verification Gas Starter Kit | Accuracy |
|-------------|--|-------------|
| VGAS-SK-3 | Verify gas starter kit including: 3 x 58 ltr gas bottles (SF6/SO2/H2O) + soft carry case and regulator /Swagelok 1/2" adapter. | |
| | SF6, 58 litre non refillable gas cylinder, 99.99%. | +/- 1%* |
| | SO2, 58 litre non refillable gas cylinder, 75 ppm. | +/- 3 ppm* |
| | H2O, 58 litre non refillable gas cylinder, 200 ppm. | +/- 40 ppm* |

| Part Number | Verification Refill Gases | Accuracy |
|----------------|--|-------------|
| VGAS-SF6-99-2 | Qty 2, SF6, 58 litre non refillable gas cylinder, 99.99%. | +/- 1%* |
| VGAS-SO2-75-2 | Qty 2, SO2, 58 litre non refillable gas cylinder, 75 ppm. | +/- 3 ppm* |
| VGAS-H2O-200-2 | Qty 2, H2O, 58 litre non refillable gas cylinder, 200 ppm. | +/- 40 ppm* |

*Note: Accuracy is combined tolerance calculated from certificate of analysis of gas container plus the EMT SF6 zerowaste Analyser accuracy.

| Part Number | Accessories |
|--------------|--|
| VGAS-Reg-Adt | Additional Verify gas regulator fitted with Swagelok male 1/2" quick connect adapter |
| VGAS-Hose | 2 metre hose for use with EMT Zerowaste Analyser |
| VGAS-VCC | Verify soft carry case for 3 gas bottles |

Regulator



| Part Number | Dial-A-Flow |
|---------------|--|
| Valve Inlet | C10 |
| Fits Cylinder | 58L |
| Flow Rate | 0.3 - 8 LPM (0.07-0.8 gpm) Selectable |
| Gauge PSIG | 1500 PSIG (103 Bar) |
| Material | Aluminium |

Carry Case

The EMT Verify Carrying Case is ideal for safely storing and transporting all EMT Verify Gas Cylinders and Regulators.



EMT Verify works with:



| | | |
|-------------------------------|-------------------------------|----------------|
| IR zerowaste® SF6 Analyser | asserolyz-IR™ SF6 Analyser | Zerowaste® CMS |
|-------------------------------|-------------------------------|----------------|




EMT Verify products are compatible with all leading SF6 Analyser brands

Cylinder

| Part Number | 58L |
|--------------------------|---|
| Pressure | 500 PSIG (34.5 Bar) |
| Gas Type | All reactive mixtures (upon request) |
| Dimensions | 14.25" x 4.25" (36.2 x 10.8 cm) |
| Volume Capacity Empty | 2.2 Litres (0.077 Cu Ft) |
| Material | Aluminium alloy |
| Weight | 2lbs 5oz (1.051 Kg) |
| Valve Outlet | 5/8" - 18 UNF (C10) |
| Regulator | VGAS-REG-ADT series |
| Volume Capacity with gas | 58 Litres (2.05 Cu Ft) at 70°F (21.1°C) and 500 PSIG (34.4 Bar) |

We use the highest quality cylinder in the industry, which meet and exceed all criteria of its customers and appropriate regulatory authorities.

| PRECISION GAS MIXTURE | |
|---|-----------------------------------|
| COMPONENTS | CONCENTRATION (MOLE%) |
| SULPHUR DIOXIDE (SO2) | 75 PPM |
| NITROGEN (N2) | BALANCE |
|  emt gas verification check | |
| MFG Date: XXX-XX UN1956 | Use Before: xx/xx/xxxx L271067 |
| Contents: 2.05 Cu.Ft. 58L @ 70 Deg. F and 500 PSIG DOT-39 NRC 500/625 M1039 | |
| GHS 010 | |
| <small>This product meets or exceeds the requirements of the Gas Detection Equipment Manufacturer.</small> | |

Example cylinder bottle label

Energy Maintenance Technologies Ltd
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For EFUBMTPG.5MPDBMETUSCVUPSTBSPVOEUIFPSMEFNBMFORVSFTFNUVLDPN