

Subpart Ja Compliance

Subpart Ja Compliant Calibration Products for Monitoring Sulfur Emissions in Flares



Contributing to Safeguard Our Environment

Air Liquide is working with existing customers, analyzer manufacturers and the US EPA to help the refinery industry address needs for compliance with Subpart Ja regulations governing flare emissions monitoring and analyzer calibration. Scott™ brand calibration gas mixtures, manifold systems and safety accessories are engineered to facilitate safe and efficient compliance with the Subpart Ja requirement that is due to take effect November, 2015.

All Scott brand products for Subpart Ja compliance feature guaranteed accuracy and stability, and provide the longest shelf life available in the industry. Moreover, calibration of flare analyzers using Scott brand products can significantly reduce calibration time while enhancing overall repeatability and system performance. Especially when distributed using Scott gas handling equipment, on-the-job safety is also significantly improved.

Benefits and Features

- Dual-certified standards feature interlocked concentration values between $\pm 1\%$ and $\pm 2\%$ to assure absolute blend accuracy
- Standard shelf life is 36 months—the industry's longest assurance for sulfur standards
- Subpart Ja compliance standards are custom manufactured for individual refinery requirements
- H_2S and SO_2 EPA protocols are NIST-traceable
- Customized and off-the-shelf BTU calibration standards are also available

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Scott™ Brand Products for Refinery Applications

- Subpart Ja Primary Reference Class™ Standards**
 Provide the highest level of accuracy and quality assurance for calibration standards at ppm and percent level concentrations which are higher than existing NIST SRM or NTRM levels. Interlocked concentration values (within ±1%) provide accuracy assurance for error-free monitoring and reporting.
- Subpart Ja Certified Master Class™ Standards**
 Meet or exceed minimum requirements for Subpart Ja compliance. As are all Air Liquide Subpart Ja standards, these blends are produced using our patented ACULIFE™ cylinder inerting processes to ensure stability throughout their designated shelf life.
- EPA Protocols**
 Scott Brand EPA Protocols are a recognized standard for excellence. They are dual-certified, NIST-traceable and available at 3–300 ppm for H₂S and 5–4300 ppm for SO₂. Shelf life for these products is 36 months.
- BTU Calibration Standards**
 Customized and off-the-shelf standards are engineered and manufactured for maximum reliability and accuracy to meet your needs for calorimetric and analyzed BTU values.
- Scott™ Brand Equipment Products**
 Recommended for Subpart Ja and other refining applications. High quality and performance combine to safely and efficiently deliver corrosive and noncorrosive gases to the point-of-use without degrading gas purity and mixture integrity that can result in calibration error or regulation noncompliance. Safety accessories and enclosures are also available.

Typical Subpart Ja Compliant Calibration Standards

Below are standard components and concentrations. Additional components and concentrations are available to meet any Subpart Ja demand—please contact your Air Liquide representative.

| Component* | Subpart Ja Primary Reference Class** | Subpart Ja Certified Master Class | EPA Protocol |
|---------------------|--------------------------------------|-----------------------------------|--------------|
| Sulfur Hexafluoride | 5 ppm–30% | 5 ppm–30% | |
| Sulfur Dioxide | 20 ppm–4% | 5 ppm–4% | 5–4300 ppm |
| Hydrogen Sulfide | 20 ppm–30% | 3 ppm–30% | 3–300 ppm |
| Carbonyl Sulfide | 20 ppm–2% | 5 ppm–2% | |
| Carbon Disulfide | 20–4000 ppm | 5–4000 ppm | |
| Methyl Mercaptan | 20–1000 ppm | 5–1000 ppm | |
| Dimethyl Sulfide | 20–8000 ppm | 5–8000 ppm | |
| Dimethyl Disulfide | 20–200 ppm | 5–200 ppm | |

* All mixtures are prepared in nitrogen balance

** Dual-certified and interlocked at ±1% (where possible) or ±2%



World leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with close to 50,000 employees and serves more than 2 million customers and patients.

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Scott™ Brand Equipment

Turnkey Delivery Solutions

To assure safe and accurate delivery

- High-purity plated and stainless steel pressure regulators
- SilcoNert® 2000 passivated regulators and purge assemblies
- Safety equipment and gas detectors
- Cross purge assemblies
- Manifolds and changeover systems
- Vaporizing regulators (electric and steam heated)
- Cylinder heating and insulation jackets
- Cylinder storage and handling equipment
- i-SEE™ on-site safety and operational best practice surveys



Most Scott brand equipment items are in stock and available for next-day shipping.



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