

Appendix A

PURCHASE SPECIFICATION FOR SF₆ GAS

1.0 SCOPE

- 1.1 This specification applies to Sulfur Hexafluoride (SF₆) gas for use with gas insulated electrical equipment such as gas circuit breakers and GIS.
- 1.2 Within this document the word “shall” indicates mandatory requirements. The word “should” indicates a recommended approach.

2.0 QUALITY

- 2.1 The gas shall be pure SF₆ colorless, odorless and non-toxic.
- 2.2 The SF₆ gas shall be manufactured to the latest ASTM D2472 specification (Standard Specification for Sulfur Hexafluoride)

3.0 SF₆ GAS COMPOSTION

SF₆ gas composition as delivered shall be as listed below (all units expressed by weight):

Requirements	Property
Water content, max dew point degrees Celsius (°C)	-62 ^A
Hydrolyzable fluorides, expressed as HF Acidity, max, ppm by weight	0.3
Air, expressed as N ₂ , max, weight %	0.05
Carbon tetrafluoride, max, weight %	0.05
Assay, min, weight %	99.8

^A Corresponds to a water content of 8.0 ppm by volume at 1.01325 x 10⁵ Pa.

4.0 CONTAINER FOR SF₆ GAS

- 4.1 SF₆ gas shall be supplied in the following cylinder weight with a net weight as specified in the purchase order. Current requirement is 115 lb. minimum
- 4.2 Cylinder and Valve

The cylinder and valve shall be designed to meet CGA requirements and ICC or DOT regulations.

4.2.1 Cylinder

The cylinder shall be designed and manufactured in accordance with the relevant pressure vessel code.

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JEA's position on possible residual gas that might be left in the tank is: SF6 partial cylinders are required to be placed in our partial cage for total evacuation prior to release to refill. All SF6 needs to be accounted for. So, the vendor should not have to empty a tank prior to refill – only to follow their refilling guidelines.

For all JEA Gas Item IDs GASBA001, GASNI003 and GASSF001, JEA will require that the cylinders be checked every two (2) weeks for refilling.

CERTIFICATION

Each cylinder must be stamped with the date of certification and all cylinders must be tested to ensure the correct pressure and that there are no cracks in the cylinders. If there is additional cost for this service, it must be submitted separately on an invoice notating the Item ID and what Purchase Order to which it is related.

When the cylinders are brought back to JEA an email must be sent to the Planner and the Buyer. Please refer to the contract details for the specific buyer and planner.

Once the cylinders have been received the vendor can send an email to JEA Accounts Payable, The Planner and The Buyer by attaching the invoice to the email.