



DRILLING FLUIDS EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our drilling fluids product line includes innovative designs such as the Model 900 Viscometer, which showcases our ability to develop new technology to meet customer and industry demands. We also offer Retorts, Aging Cells, Roller Ovens, Mud Balances, Filter Presses, and all other instruments required to evaluate drilling fluid properties according to API Recommended Practice 13B-1 and 13B-2.

As an independent manufacturer and supplier, OFITE has one priority, our customers.

OFI TESTING EQUIPMENT, INC.

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Garrett Gas Train

The Garrett Gas Train is the most widely used portable instrument for the determination of soluble sulfides and carbonate concentrations in drilling fluid. Soluble sulfides include H_2S and the sulfide (S^{2-}) and bisulfide (HS^-) ions. Total soluble carbonates include CO_2 and the carbonate (CO_3^{2-}) and bicarbonate (HCO_3^-) ions. Mud filtrate is acidified inside the gas train, converting all sulfides to H_2S or all carbonates to CO_2 , depending upon the test. The gas train separates the gas from the liquid and an inert carrier gas transports the gasses through the separate chambers. In chamber three, the gas stream is passed through a Dräger-Tube™, which responds to H_2S or CO_2 by darkening along its length, with the stain length proportional to the amounts of concentrations in the filtrate. For qualitative H_2S analysis, lead acetate paper disks may be inserted to determine the presence or absence of sulfides. The



OFITE Garrett Gas Train consists of a transparent train, pressure regulator assembly, CO_2 and N_2O cartridges, Dräger-Tubes™ for H_2S and carbonate detection, and a convenient carrying case. For determining active sulfides in oil-based fluids, OFITE offers a separate kit (#151-20) that analyzes whole mud samples.

Technical Specifications

- Part Number: #151-00
- Size: 18.75" × 14.5" × 8" (48 × 37 × 20 cm)
- Weight: 17 lb 5 oz (7.9 kg)