

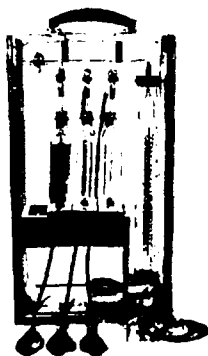
ARMY - MD, DM
NAVY - MS

USER ACTIVITIES:

ARMY - ME
AIR FORCE - 82

REVIEWER ACTIVITIES:

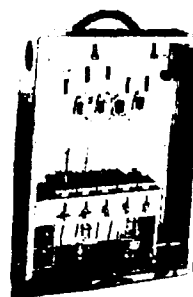
This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.



MS51437-1



MS51437-2



MS51437-3



MS51437-4

FED. SUP CLASS
6630

MATERIAL: The case and component supports shall be made of plywood. All glass parts shall be borosilicate glass in accordance with Federal Specification DD-G-541, type I. Seamless red or black rubber tubing and rubber gas bags.

DESIGN: MS51437-1 for measuring CO_2 , CO and O_2 in furnace flue gases shall include one glass manifold with 3-way stopcock at inlet, two 2-way stopcocks and plain connection at gas buret; one 100 mL capacity gas buret with bulb at top, one buret water jacket with two 1-hole rubber stoppers, two valve bubbler pipets, one plain pipet with internal copper strips, three gas expansion bags, one 125 mL aspirator bottle and 4.8 mm ID x 91 cm long rubber tubing.

MS51437-2 for measuring CO_2 , CO, O_2 , H_2 and N_2 shall include one glass manifold with 3-way stopcock at inlet, three 2-way stopcocks, one plain connection at the center and one plain connection at gas buret; one 100 mL capacity gas buret with bulb at top, one buret water jacket with two 1-hole rubber stoppers, one valve bubbler pipet, two valve bubbler pipets with stopcocks, one plain pipet, one palladium tube, one alcohol burner for palladium tube, four gas expansion bags, one aspirator bottle and 4.8 mm ID x 91 cm long rubber tubing.

MS51437-3 for measuring CO_2 , CO, O_2 , H_2 , illuminants, methane, ethane and N_2 shall include one glass manifold with 3-way stopcock at inlet, three 2-way stopcocks and 2 plain connections plus one plain connection at gas buret; one 100 mL capacity graduated gas buret, one water jacket with two 1-hole rubber stoppers, two plain pipets, two valve bubbler pipets, one slow-combustion pipet, four gas expansion bags, two 125 mL aspirator bottles and 14 mm ID x 183 cm long rubber tubing. Power supply for slow-combustion pipet which delivers 2 to 3 amps at 6 volts, with transformer, rheostat and switch.

MS51437-4 for measuring purity of cylinder gases shall include the use of a special buret that has both upper and lower scales to measure less than 3% or greater than 97% of reactive component. Also includes glass manifold with 3-way stopcock at inlet, one plain connection for pipet and one plain connection at buret, one buret water jacket with 1-hole rubber stoppers, one bubbler pipet, one gas expansion bag, one aspirator bottle and 14 mm ID x 91 cm long rubber tubing.

The case for all types of gas analyzers shall be made of plywood with removable front and back panels and a carrying handle on the top. The supports for holding the burets and pipets shall be made of plywood. Metal clips and fasteners may be used to hold the manifold.

APPROVED 5 MAY 1983 REVISED

P.A.	EA	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust	MS 99		ANALYZER, GAS	MS51437
Procurement Specifications	NONE	SUPERSEDES:		SHEET 1 OF 2

FED. SUP CLASS

All electrical components and insulation shall meet the standards of Underwriters Laboratories, Inc.

NOTE: Items differing from this Military Standard by minor variations in design or dimensions are considered standard under this document, provided such variations do not affect performance and are not in conflict with the material requirements specified herein.

USER ACTIVITIES:

REVIEWER ACTIVITIES:

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APPROVED 5 MAY 1983 REVISED

P.A.	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cust		ANALYZER, GAS	MS 51437
Procurement Specifications	SUPERSEDES:	SHEET 2	OF 2