

BOMB CALORIMETER

CATALOGUE NO.: GEC-P40607

Bomb Calorimeter provides a simple and inexpensive method for determination of heat of combustion of organic matter and the calorific value & sulphur content of solid & liquid fuel. All parts of the outfit have been finished and tested according to the specification laid down by Institute of petroleum and British Standard Institute.

APPLICABLE STANDARDS:

TAPPI, SCAN, ISO



Testing of Bomb :

Each Bomb is tested before it leaves the factory in accordance with the requirement of the Institute of Petroleum (I.P. 12/63 T.Appendix 1) and a works certificate is issued with each Bomb. This certificate gives the results of hydraulic testing under a pressure of 300 atmospheres (4400 p.s.i) maintained for a period of ten minutes without sign of leakage. The maximum deformation must not exceed the specified limits.

Calorimeter Vessel :

The vessel is made of copper and is Chromium plated or S.S. It includes a Bomb support that ensures proper positioning of Bomb in the vessel.

Water Jacket :

The outer container of Jacket is made of copper and is chromium plated both inside and outside or S.S. The top is closed by an ebonite cover. A terminal block is fitted to the top of the container so that connection can be made from the firing control.

Offset Stirrer :

The stirring mechanism supplied gives sufficient turbulence for effective stirring whilst no heat is imparted to the calorimeter water. It consists of an impeller stirrer driven at a constant speed of approximately 800 r.p.m. The offset arrangement whereby the motor drives the impeller via a belt precludes any possibility of heat transference between motor and calorimeter Vessel Contents.

Electronic Firing Unit with Digital Backman Thermometer :

For firing a calorimeter Bomb AC supply main (230 Volts 50 Cycles). It consists of two parts Viz Electrical Box and Electronic Box for Digital Thermometer reading. The Electrical Box is provided with socket for stirrer and terminals for the fuse wire. The unit has provision for test of firing wire resistance or open circuit. A left-hand side bulb indicate the continuity while right hand side bulb indicates the open circuit (firing).

Crucible :

Various types of crucible are available the standard supplied with the outfit being a stainless steel crucible of 8 ml capacity which fits in the standard support ring provided with the outfit.

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