

IS 2787 : 2006 Oil Pressure Heaters – Specification

IS 2787 : 2006 covers the requirements and tests for four types of oil pressure heaters, burning pressurized kerosene oil under a normal working pressure not exceeding 200 kN/mm² (2 kgf/cm²).

Oil Pressure Heaters are designated into four types (Type 1, 2, 3 & 4) depending upon the number of burners and the minimum fuel capacities. The number of burners varies from 1 to 4 for Type 1 to 4 respectively, with minimum fuel capacity being 1400 ml for Type 1, 2 and 2400 ml for Type 3, 4.

Consumers expect high quality, durable oil pressure heaters that meet safety standards, provide reliable and fuel-efficient operations. IS 2787 : 2006 addresses these expectations through strict guidelines on:

1. **Material Quality:** The standard prescribes only such materials in manufacturing of different parts which ensures safe handling and good performance of the heater throughout its reasonable life.
2. **Construction:** The standard prescribes sound construction of the oil pressure heaters so as to withstand the performance tests.
3. **Interchangeability:** The standard prescribes interchangeability of parts in same type of oil pressure heaters.
4. **Fuel Consumption:** The standard limits the acceptable fuel consumption within $\pm 15\%$ of the specified fuel consumption.
5. **Testing:** It mandates comprehensive testing procedures including maximum working pressure, safety pressure and bursting pressure, thermal efficiency, surface temperature, fuel temperature, combustion efficiency and resistance to draught.
6. **Instructions for Use:** The standard prescribes that each heater shall be supplied with instructions for safe use and general information.
7. **Packing and Marking:** The standard prescribes the requirements for packing and marking of information on oil pressure heaters.

The compliance to IS 2787 : 2006 ensures that the oil pressure heater meets the safety and quality expectations of the consumers thereby promoting efficient, reliable and safe operations of the heaters.