



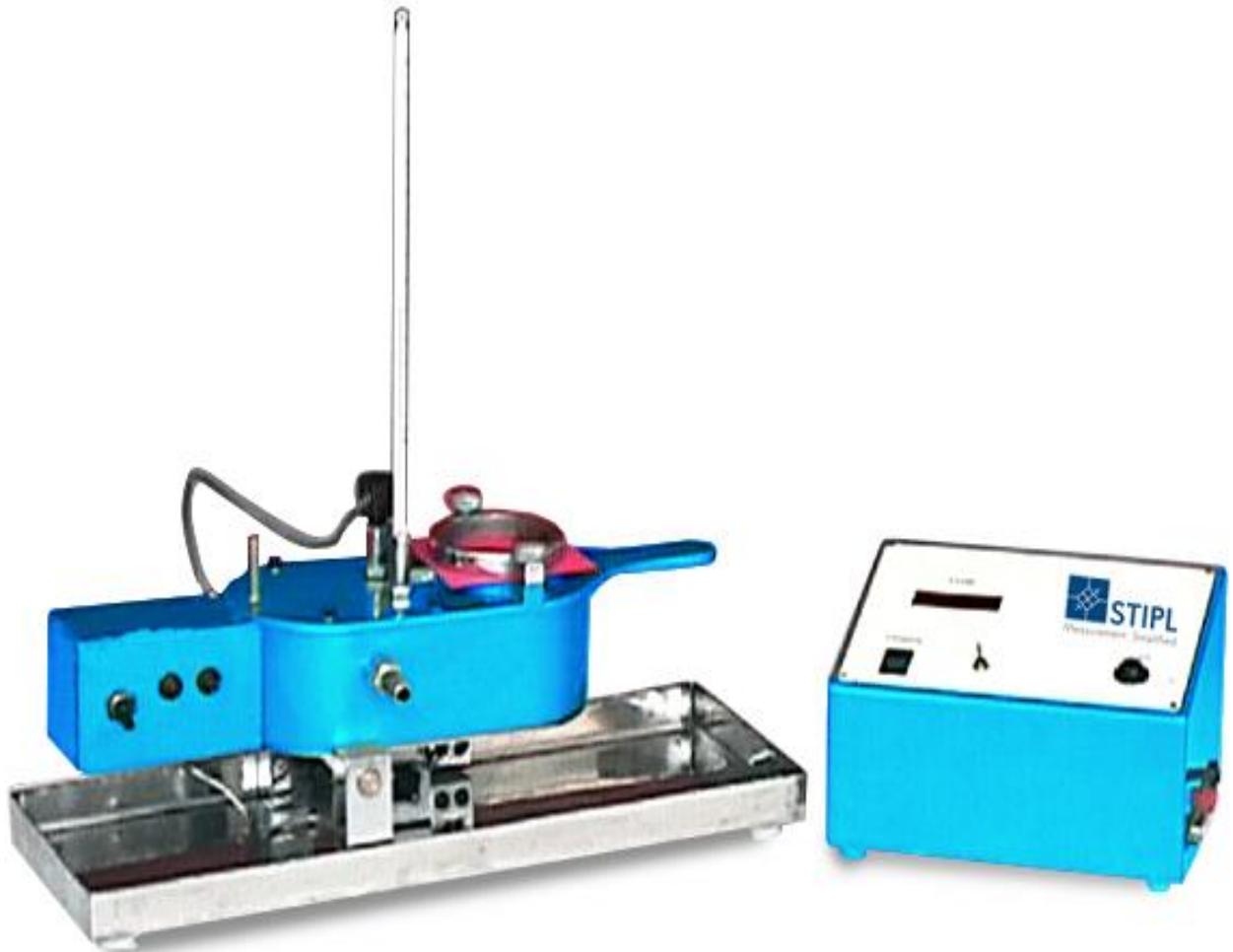
## **SAHARANPUR TESTING INSTRUMENTS PVT LTD**

Manufacturer & Suppliers of All Kind of Pulp, Paper, Board, Tissue, Packaging, Converting & General Testing Instrument for Laboratory

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### **Oil Penetration Tester (Williams type)**



Usage : Designed to determine the penetration time of oil and other liquids through paper and other flat materials.

Definition : This method is used to measure the absorbency rate of paper for printing inks having an oil vehicle. It is normally used only for easily permeable papers such as news, book, and mimeograph ; however, it can be helpful for any paper where the absorbency of an oil based vehicle is important.

Device Description : The instrument chamber has an orifice for holding the liquid medium and a clamping device for holding the material. The penetration timer stops automatically after releasing the sample holder. Double processed castor oil having viscosity of  $700 \pm 30$  centipoises at 25 C or mineral oils of the same viscosity and comparable wetting characteristics are used.

Test Description : A correlation has been established between the results of this test and the printing quality of uncoated papers. The oil absorbency of paper is related to the porosity and internal structure of the paper.

Specifications :

Temperature Range	Ambient to 100 degree C. Electronic PID digital Temperature controller of liquid $35 \pm 1$ degree C.
Penetration timer	999 second with 0.1 second
Oil viscosity	$700 \pm 30$ centipoises at 25 degree