

ECO - DENSITY INDEX ANALYZER



1. Hardware with programmed software. 2. Thermal printer. 3. High precision weighing machine 4. Wireless mouse (keyboard not visible in picture). 5. 18" monitor. 6. UPS

Introduction: Aluminum quality in smelting stage gets deteriorated due solid and gaseous impurities. Density Index indicates the extent of the problem and thereby help in gauging the extent of the degassing required, ultimately resulting in high quality end product and decrease in rejection.

Our Density Index Analyzer (DIA) determines the density index by using two samples; one solidified under atmospheric (ambient) pressure, and the other solidified under a reduced pressure (vacuum) of approximately 80mbar (using Reduced Pressure Test machine*). Percentage difference in the density of both the samples is calculated with the help of the dedicated software supplied along with.

The Unit comprises of a high precision, Essae make, Model DS852G, weighing balance of 600gms capacity & an accuracy of 0.001 gm, a density kit and a dedicated software. The unit comes with an advanced software system, whose salient features are:

1. High accuracy
2. Realtime calculations of density and density index
3. Easy reporting [including itemwise filteration of report].
4. Data backup with historical reporting (Date-wise & item-wise recording& printing).
5. Internal Calibration & calibration reminder
6. Dedicated Bluetooth printer alongwith data download thru USB.
7. Step by step guidance to the user.
8. No external computer required.
9. Calibration Report, with NABL tracability