

"METHOD AND DEVICE FOR MEASURING WETTABILITY UNDER
CONTROLLED ATMOSPHERE"

Abstract

A device making it possible to carry out wettability measurements under a controlled atmosphere, comprising an apparatus (5) for measuring the wettability of at least one surface portion of a sample by a liquid metallic solder, at least partially included in an enclosure (6) which includes a gas injector which comprises at least one set of ducts (10) mounted in series and/or in parallel, at least one portion of which includes gas injection orifices, and is fed by at least one gas supply pipe connected to the set at a primary connection node, the dimensioning of the set respecting the following relationship:

$$\Sigma \omega_i / \Sigma \phi_i \geq 1 \text{ preferably } \geq 1.5;$$

where $\Sigma \omega_i$ represents the sum of the internal cross sections of the gas supply pipes which feed the set and $\Sigma \phi_i$ represents the sum of the cross sections of the gas injection orifices of the set of ducts.

Figure 2 to be reproduced.