

EVALUATION OF THE MELT QUALITY IN ALUMINUM ALLOYS

AluQ is a melt quality equipment able to evaluate and analyze the liquid aluminum regarding the following tests:

- Density analysis
- Inclusions analysis
- Thermal Analysis (Thermolan-Al®)

It is a portable equipment suitable to use on the melting area and/or melt treatment area.



Main Features

Compact equipment - Robustness

- Evaluation of the aluminum melt quality in a single equipment.
- Robust and tough equipment suitable for aluminum foundries.

Versatility – Simultaneity – Double chamber

- Able to perform the 3 test simultaneously, saving time of taking samples.
- The double chamber allows having the density and inclusions analysis at the same time, having less time consuming.

Easy use – Easy adjustment

- Intuitive and easy-to-use display for different levels of knowledge / user.
- Simple and easy adjustment of test parameters

Results – Data Management

- Ease of understanding the results generated by the system. Quick and reliable data collection.
- Possibility of data recording and data analysis on a centralized system of the plant or other supports.

Melt quality control



Analysis of the melt quality in a short time. It enables to implement the corrective actions based on the risk of defects detected.

Minimizing defects



Reduction of defects in real parts through a correct control and management of metal quality

Cost savings



Cost savings and efficiency improvement through a melt quality control and process optimization.

Chamber 1:
INCLUSIONS ANALYSIS

- Big crucible
- Máximum Vacuum pressure
- 12 minutes test

Plug-in – Thermal Analysis
THERMOLAN-AI®:

Real-time monitoring of the solidification curve of the melt..

Chamber 2:
DENSITY ANALYSIS

- Small crucible
- High Vacuum Pressure (80 mbar)
- 4 minutes test

Display SIEMENS Simatic HMI
TEST ADJUSTMENT AND DISPLAY.

- Monitoring of the remaining test time.
- Pressure at real time.

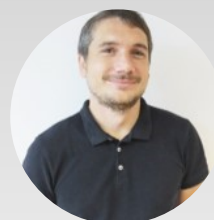
Technical Data

Dimensions:	500 x 550 x 550 mm
Weight:	60 Kg
Electrical connection:	Electrical outlet of 240V
Vacuum pump:	Oil lubricated pump
Display:	SIEMENS simatic HMI 4" TFT
Interfaces:	3 "K" thermocouples connectors
Thermolan-AI	
Bluetooth	
Additional equipment	Clamps, crucibles

Contact



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Services

- Training
- Maintenance and calibration service
- Technical support



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