

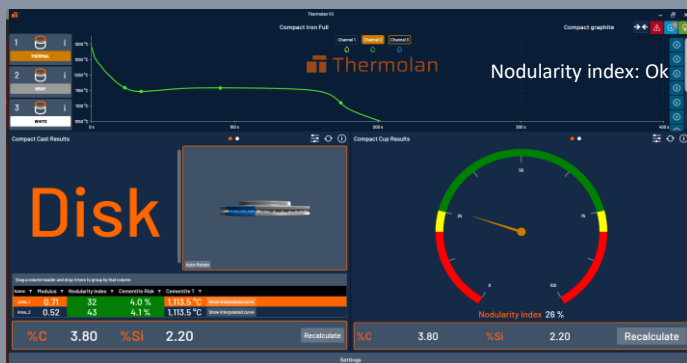
CGI production control with a SINGLE QUICK-CUP

Thermolan® offers the possibility to control the manufacturing process of Compact Graphite Cast Iron (CGI) using a single Tellurium inoculated thermal cup.

The software predicts the free Mg content and if this content is OK or not for compact graphite production.

The leading technology implemented in the thermal analysis system Thermolan® presents the following main aspects:

- Production control by means of a unique thermal analysis cup.
- Liquid melt is OK to proceed with the pouring of the moulds.
- Corrective action suggestions.



Determine in **real time** whether the free Mg content of the liquid melt is in a proper range to obtain the target nodularity

Extrapolate the results to the different areas of the casting, as a function of the section size.

Implement corrective actions to **prevent** the scrap of the production or the run out of the material.



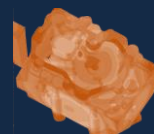
Ensure the quality of every treatment

Implement corrective actions in real time, based on the free Mg that the melt presents.



Improve process efficiency and performance

Save costs and improve yield reducing the scrap rate due to an incorrect nodularity.



Relate results to the casting

Extrapolate the results of the liquid melt to the critical sections of the casting in which customer requirements are most demanding.