



SGR-Win

— A new type instrument for nodularity determination **-**

The same melt is poured into Mg-TP as well as Mg-Cup. Correlation with TP image analysis is obtained and the data is input. SG% in the basic program is automatically calibrated.

An instrument of single window display of cooling curve, SG%, and image analysis.(Parallel display of Mg-Cup and Mg-TP)

SG Logger One (option)

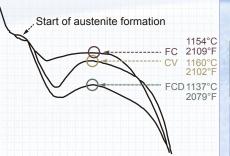
Alarm for pour stop by a fading timer can be given by a patrol lamp or alarm sound (option).



Calibration curve is automatically corrected by inputting data.

Nodularity of FCD and CV is measured (SG%)

Touch panel type (15 inch).



precision ±5%

Data saved for three years

Past record can be referred.



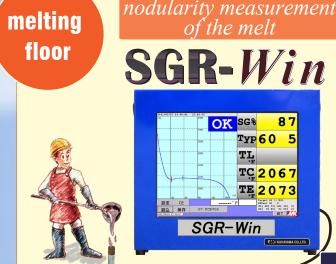
Experimental results suggest the following factors to be important for nodularity improvement.

- 1 Properties of the original melt before Mg treatment.
- Performance of Mg treatment and inoculation. If eutectic solidification is above 1150° C (2102° F), improper Mg treatment and hence, insufficient nodularity may be suggested. If eutectic solidification is between 1130 and 1135° C (2066 and 2075° F), well-grown nodular graphite may generally be expected.
- 3 Chemical composition of the melt, including carbon equivalent and minor residual elements.
- 4 Casting section thickness.
- Pouring temperature, time before pouring, and other process variables.

NAKAYAMA CO.,LTD.



Features of the new SGR-WIN for nodularity SG% determination



melting floor

automatic polisher



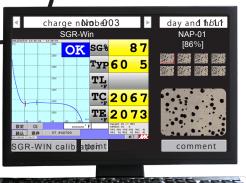
data collection

Control by feed back. The setting can be changed.

If NAP-01 is not available to the user, Nakayama can supply TP and perform image analysis by exchanging data. depending on contract, supplied.

laboratory

SG Logger One: a data collecting and controlling system



SG% value by SGR-Win and image by NAP-01 are displayed in a single window (or reported).

Example of variables to be displayed

1. Nodularity SG% + graphite image

4. Cooling curve and analysis

2. Product name and number

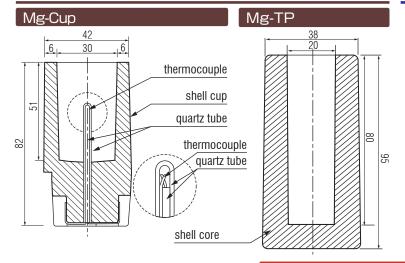
5. C%, Si%, and CE value

3. date and hour

6. Comment

(SG Logger One)

Section



SGR-WIN Specification

W410 × H360 × D130(mm)
15 inch touch panel (supersonic type)
4 GB (for three years)
JIS-K temperature range 0 to 1370°C
SG% ±5
11kg
(AC)100-240V
a set of cup stand (5 m)
a touch pen
a USB memory for data handling

SGR-Win is a product based on the technology described in Patent No.2885983.

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Demonstration Room (150 m²)

open daily, appointment needed, simulation

See our homepage for more details on demonstration.http://www.nakayama-meps.co.jp/ ■ West Japan Office

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