

FERROLAB EXCEL PLUS



The Excellent Choice



Ajay Syscon Private Limited

MEASURING BEYOND EXPECTATIONS

Ajay Syscon Private Limited is in designing and manufacturing of state of art microprocessor-based instruments for carbon - silicon analysis and temperature measurement. We also manufacture consumables like, metacups and thermocouple tips of high quality at very competitive rates. The company was established in 1986, and is a joint venture with Syscon International Inc; U.S.A. Aggressive approach towards product development supported by excellent manufacturing facilities has given the organization an edge over competitors. The company has well spread international network for sales as well as service.

The Product – FERROLAB EXCEL PLUS

The fierce competition in foundry business and the continuous demand to improve the product quality and reduce running cost led to development of FERROLAB EXCEL PLUS. The well-trained R&D team of Ajay Syscon has been working on reducing the cost of carbon silicon analyser. They were set the target of reducing the equipment cost to 1/5 th along with reduction in weight also. The team came out with a great success and their success story can be experienced in FERROLAB EXCEL PLUS. The product weighs 5 kgs only and is available at an unbelievable price.

Salient Features

- Thermal analysis of following parameters:
 - Carbon Equivalent (CE)
 - Carbon (C)
 - Silicon (Si)
 - Bath Temperature (BT)
 - Undercool Temperature (TU)
 - Delta-T Temperature (dT)
 - Saturated Carbon (SC)
 - Brinell Hardness (BHN)
 - Tensile Strength (Rm)
- Thermal analysis of 10 iron grades permissible with configurable parameters of each iron grade type with special feature of iron grade mismatching
- Immersion time for bath temperature measurement can be set by user
- Maximum process time for thermal analysis is 240 seconds
- Database storage of max 45 previous records of thermal analysis and 175 of bath temperature with date & time
- Simultaneous Measurement for thermal analysis of both channels and bath temperature
- Input thermocouple channels & temperature range:
 - K type – 2 channels CH 1 for tellurium and CH 2 for non tellurium cups
Temperature range - 950°C - 1370°C
 - S/R type thermocouple for bath temperature measurement
Temperature range – S/R type- 1000°C - 1767°C
- Can withstand noise and temperature impacts

Technical Specifications:

Measuring Facilities	<ul style="list-style-type: none"> • Thermal Analysis (Dual Cup) • Bath Temperature Measurement
For Grey and S. G. Iron	Determination of CE, C, Si, ΔT, SC for Unalloyed Cast Iron - Prediction of BHN, Rm
Temperature Measurement Range	Type - K (CH. 1 / CH. 2) 950 to 1370°C Type - S/R (CH. 3) 1000 to 1767°C
Operating Temperature	0 - 50° C
Calibration	IPTS 68 / ITS 90
Accuracy	For Carbon Equivalent: ± 0.05 or better For Carbon: ± 0.05 or better For Silicon: ± 0.10 or better
Temperature Display	°C / °F
Display	20 x 4 LCD, Alphanumeric Display 6mm digit height
Additional Display	4 Digit seven segment display 1" digit height for values of CE, C, Si & Bath Temp.
Error Codes	Detailed error text information
Linearisation	Over the entire measuring range
Keypad	Dust proof, user-friendly tactile keypad
Measuring Data Storage	175 Records for Bath Temperature Measurement 45 Records for Thermal Analysis
Data Backup	Flash Memory
Date – Time	Real time clock, backup by battery(3V lithium)
Run Number	12 Digits Alphanumeric
Self Check Facility	Power On Test
Cabinet	Dust Proof Aluminum Housing Size – Upper cabinet – 264 (L) x 155 (W) x 135 (H) mm Lower cabinet – 264 (L) x 255 (W) x 113 (H) mm
Power Supply	230 V AC ± 10% 50Hz (110 V AC ± 5% on request)
Power Consumption	15 W
External Connectivity	<ul style="list-style-type: none"> • Audio Visual Panel for Process Indication • Large Remote Display of 5 inch, 7 segment display • Centronix Printer Facility (Epson / HP make) • Serial Interface RS 232 / RS 485 (Optional)
Temperature Detection Method	Flat Plateau

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