

For more information on this product and on our complete package of solutions

Please contact our **local service center:**

▶ **VESUVIUS SENSORS & PROBES DO BRASIL**

Rua Benjamin da Silveira Baldy, 2001
Paulas e Mendes
CEP 18170-000 Piedade
São Paulo, Brazil
Tel: +55 15 3344 9000

▶ **VESUVIUS SENSORS & PROBES USA**

33554 Pin Oak Pkwy
Avon Lake, OH 44012
United States of America
Tel: +1 440 930 0362

▶ **VESUVIUS SENSORS & PROBES EUROPE**

Via Mantova, 10
20835, Muggiò (MB) Italy
Tel: +39 039 27111.1

▶ **VESUVIUS SENSORS & PROBES ARGENTINA**

Urzquia 919, Piso 1, Rosario,
Santa S2000ANC
S2000ANC Exterior Argentina
Tel: (54) 341 449 5008

▶ **VESUVIUS SENSORS & PROBES CANADA**

175 Calixa-Lavallée
Verchères, QC, Canada
J0L 2R0
Tel: (450) 583-3917

▶ **VESUVIUS SENSORS & PROBES FRANCE**

Centre d'Activités Economiques – ZI de
Franchepré 54240 JOEUF – France
Tel: +33 3 87 50 03 10

*VESUVIUS Sensors & Probes is a trade mark of the Vesuvius Group, registered in certain countries, used under license. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system of any nature or transmitted in any form or by any means, including photocopying and recording, without the written permission of the copyright holder or as expressly permitted by law. Applications for permission shall be made to the publisher at the address mentioned. Warning: The doing of an unauthorized act in relation to a copyright work may result in both a civil claim for damages and criminal prosecution. All statement, information and data contained herein are published as a guide and although believed to be accurate and reliable (having regard to the manufacturer's practical experience) neither the manufacturer, licensor, seller nor publisher represents nor warrants, expressly or impliedly: (1) their accuracy/reliability, (2) that the use of the product(s) will not infringe third party rights, (3) that no further safety measures are required to meet local legislation. The seller is not authorized to make representations nor contract on behalf of the manufacturer/licensor. All sales by the manufacturer/seller are based on their respective conditions of sale available on request.



PRODUCT

TA Cups

Disposable cups for thermal analysis of molten iron

- Allows accurate control of the chemical composition of the base iron
- Regular use improves the uniformity of the cast iron quality
- Reduces the tap-to-tap time of the furnaces
- Can be used to predict casting defects

Disposable Cups for Thermal Analysis of Molten Iron

A product to lead you to uniform quality of your cast iron

- The Vesuvius TA-Cups are disposable cups made of phenolic sand provided with a type K thermocouple. They have the capability of acquiring the cooling trace of the metal poured inside of it;
- In 2020 our new TA-CUP RS was launched with the main objective of achieves greater accuracy because of its stronger thermal resistance, shorter response time and more even solidification of the metal within the cup.

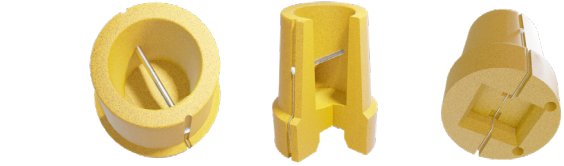
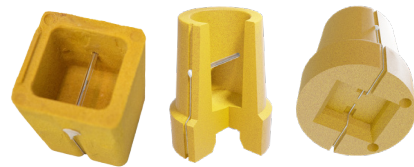
The best design for your application

- Vesuvius provides two different models of cups to fit a variety of customer needs:
 - TA-CUP RS have a smaller internal volume and provide results faster;
 - TA-CUP SQ have a larger internal volume and are more commonly used with advanced thermal analysis systems.

Both the TA-CUP RS and TA-CUP SQ products can operate with the FERROLAB* V Instrument provides a deeper analysis of the quality of molten iron before casting it. The provided information goes beyond metal chemistry, it also brings important data from the inoculation state and relevant insights into nucleation and crystallization of the metal.

CARBONTIP* Cup RS & FERROLAB* V Instrument

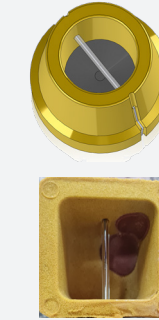
*Trademarks of the Vesuvius Group of companies



Disposable Cups for Thermal Analysis of Molten Iron

Cups for Metastable Analysis (KT Cups)

- The KT Cups are provided with the right amount of tellurium to force a grey iron to thermodynamically solidify as a white iron;
- This allows the measuring instrument to calculate the %CE more precisely and also the contents of %C and %Si.



Cups for Stable Analysis (K Cups)

- The K Cups provide the stable solidification of the poured iron, showing its behavior as it actually is;
- This data allows you reach more advanced thermal analysis variables such as undercooling, recalescence, end of solidification and others who correlate with levels of inoculation, nucleation, carbides formation, porosity and etc.

