THERMAL ANALYSIS CUPS FOR MOLTEN METALS

A complete range of thermal analysis CUPS

To be used in all applications where required to rapidly obtain the determination of CE in white cast iron, of Carbon % in steel, and of structure composition in aluminium alloys.

Very easy to use, thermal analysis cups will give an immediate glimpse about the state of the melt at the floor before having, if needed, the results of laboratory analysis.

A sample of molten metal is taken by spoon from the furnace, ladle, or cupola runners and poured into the proper cartridge engaged on the holder. During the cooling, the high precision thermocouple of the sensor generates an EMF according to the sample’s actual temperature, allowing the thermal analysis. The holder assembly has been designed with a polarized connector complete of compensated cable. The resulting information is immediately converted by the equipment into the chemical analysis, which is displayed to the floor personnel for their possible intervention prior to pouring.
**STEEL SUPERCARB S**
*A10101*

**Description:**
Shell moulded cartridge complete with a high precision Pt-Rh type S thermocouple, for the C% determination in molten steel.

**Range:**
0,01 – 2,00 % Carbon

**Accuracy:**
± 0,01 % Carbon

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**CAST IRON SUPERCARB T**
*A10112*

**Description:**
Shell moulded cartridge complete with a high precision type K TC, and coated with Tellurium for the CE, C and Si determination in molten hypoeutectic cast iron.

**Ranges:**
3,50 – 4,90 % CE
2,10 – 4,20 % Carbon
0,30 – 3,10 % Si

**Accuracy:**
± 0,01 CE
± 0,02 Carbon
± 0,05 Si

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**CAST IRON SUPERCARB K**
*A10113*

**Description:**
Shell moulded cartridge complete with a high precision type K TC, for the CE determination and/or of the ΔT of undercooling for morphological analysis in molten hypoeutectic cast iron.

**Ranges:**
3,50 – 4,90 % CE

**Accuracy:**
± 0,01 CE

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**ALUMINIUM SUPERAL**
*A10114*

**Description:**
Shell moulded cartridge complete with a high precision type K TC, for grain size and grain structure determination in molten Aluminium alloy.

**Ranges:**
500 – 1400°C

**Accuracy:**
± 1 °C on liquidus T