
ECOFLUID

LEAD FREE ALLOY

The OMODEO A.& S. Metalleghe Spa, has devoted herself in the research of lead free alloys that can be used instead of the usual Tin/Lead alloys.

In this respect, our laboratory has studied also a product with a melting point of about 215/220° C., suitable to substitute the usual Sn63/Pb37 alloys.

Under the ecological aspect, that in a few years will press to eliminate all materials containing lead, this alloy will be an easy substitute of the Tin/Lead common alloys, simply using some device, and considering that the printed card board that must be assembled, and the components' terminals must be pre-tinned with lead free alloy.

If compared to the alloys used at present, Ecofluid has a melting point of about 35° C. higher, and this must be considered using components; nevertheless it is treated with our "Fluidonda" process, which allows to limit to the minimum possible the difference of temperature between the melting and operating point, also in order to eliminate the copper dissolution from the card tracks.

In all cases, the slender melting of copper doesn't influence negatively the alloy till the value of 0.7%. This is the copper content in the eutectic Tin /Copper, which has a melting point of 227° C.

We enclose for your information the diagram of the thermal analysis of Ecofluid alloy, that can be compared to the diagram of the thermal analysis of Sn63/Pb37 alloy.

We are at customer's disposal for any sampling or test may be needed. Every advice, criticism and collaboration is welcome to reach the best possible result.

Instrument: DSC

Scan rate: 20,00 deg/min

ECOFLUID

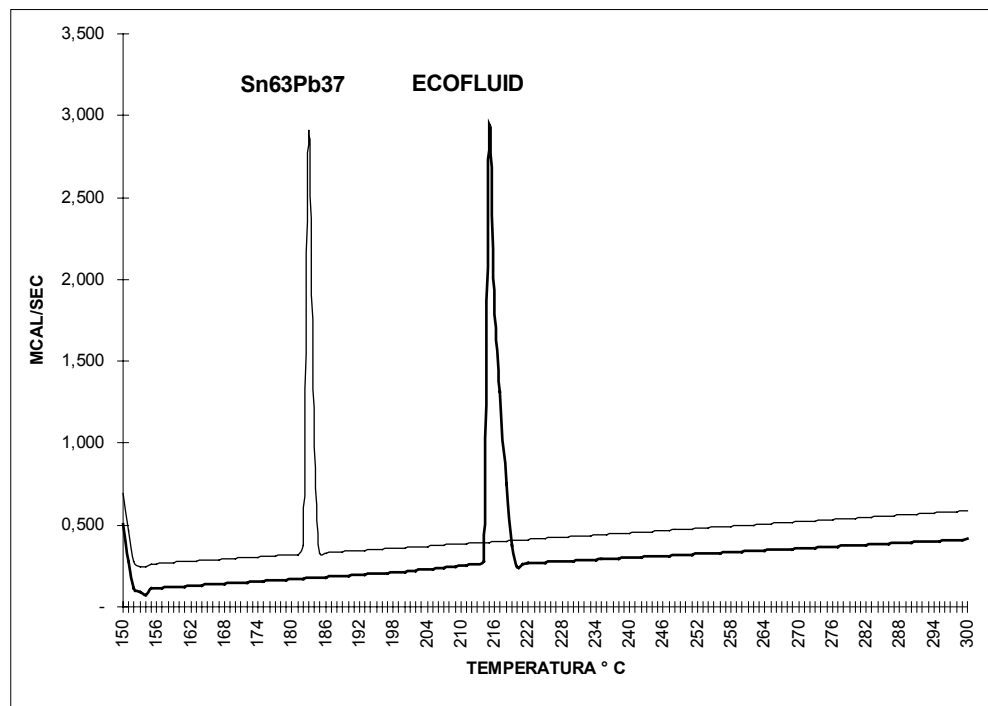
ONSET : 215,17

CAL/GRAM: 12,45

Sn63Pb37

ONSET : 182,6

CAL/GRAM: 10,4



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