

**THERMOMAGNETIC CURVES OF SELECTED MINERALS
AND MONOMINERALIC FRACTIONS**František Hrouda^{1,2}, Karel Zapletal¹¹AGICO, Inc. Brno, Czech Republic²Institute for Petrology and Structural Geology
Charles University, Prague, Czech republic**Introduction**

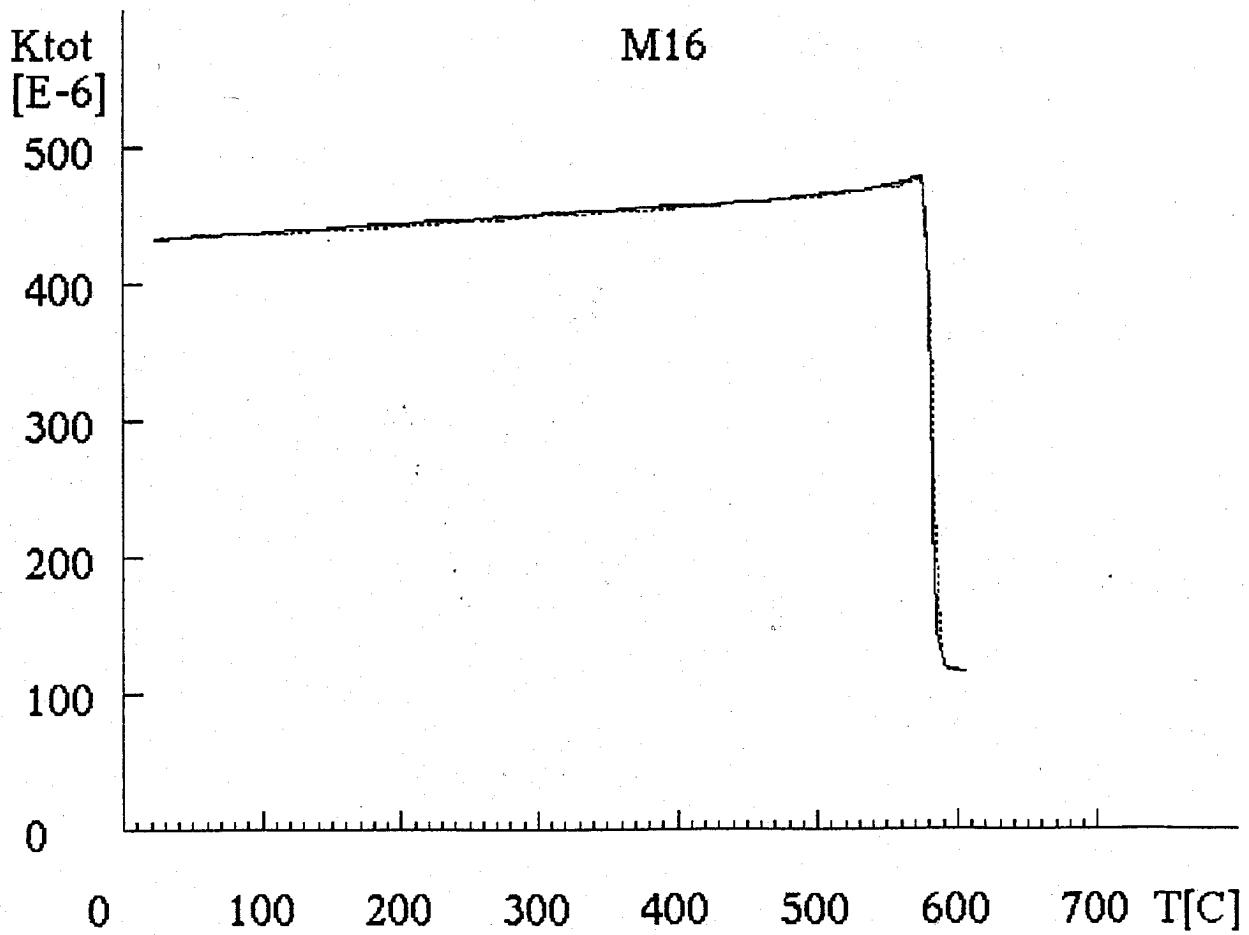
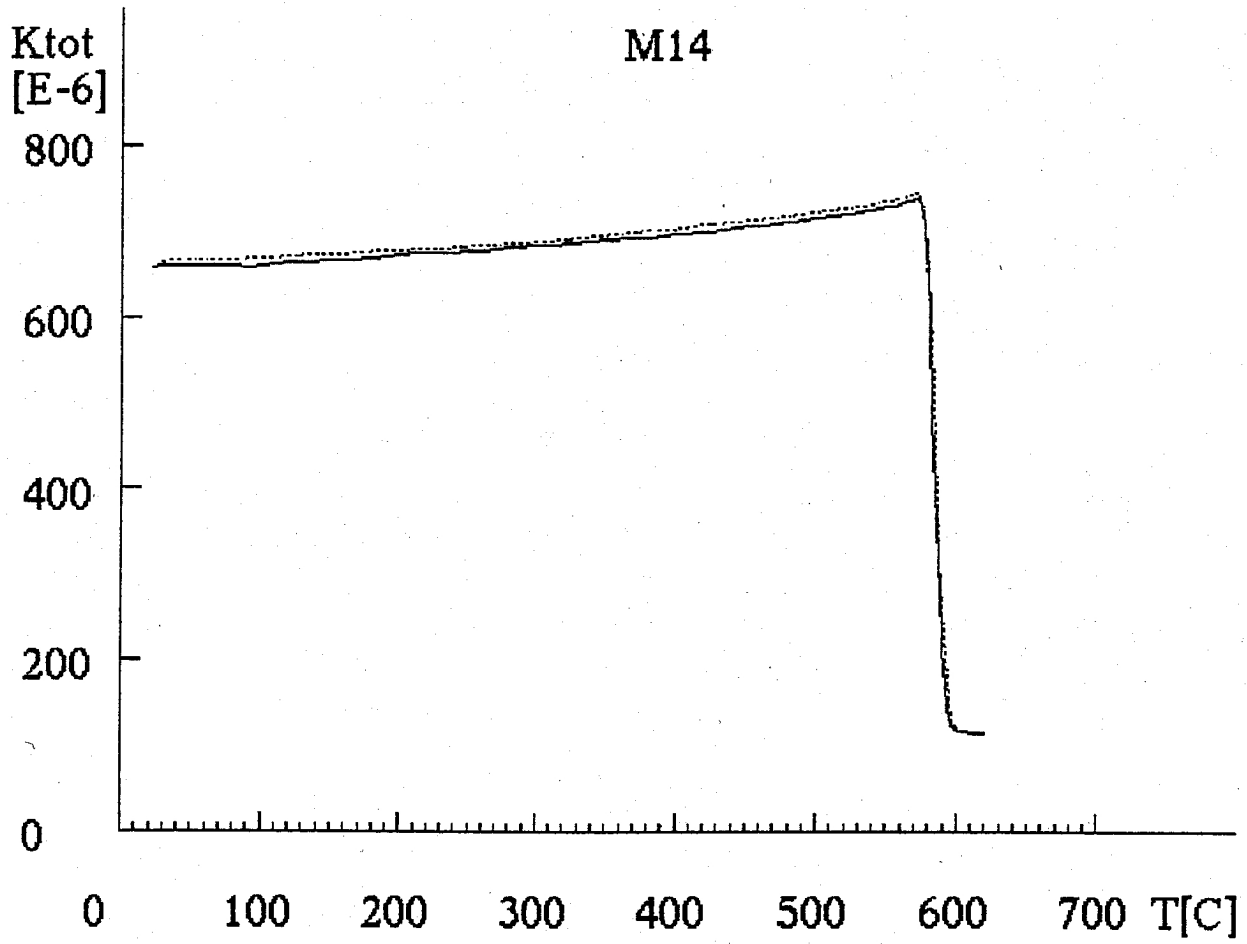
The method of the investigation of the temperature variation of magnetic susceptibility of rocks has recently shown an effective tool of rock magnetism. It can identify relatively easily and reliably the magnetic minerals carrying the magnetism of the rocks under consideration and, under favourable conditions, it can estimate quantitatively contributions of these minerals to the rock susceptibility.

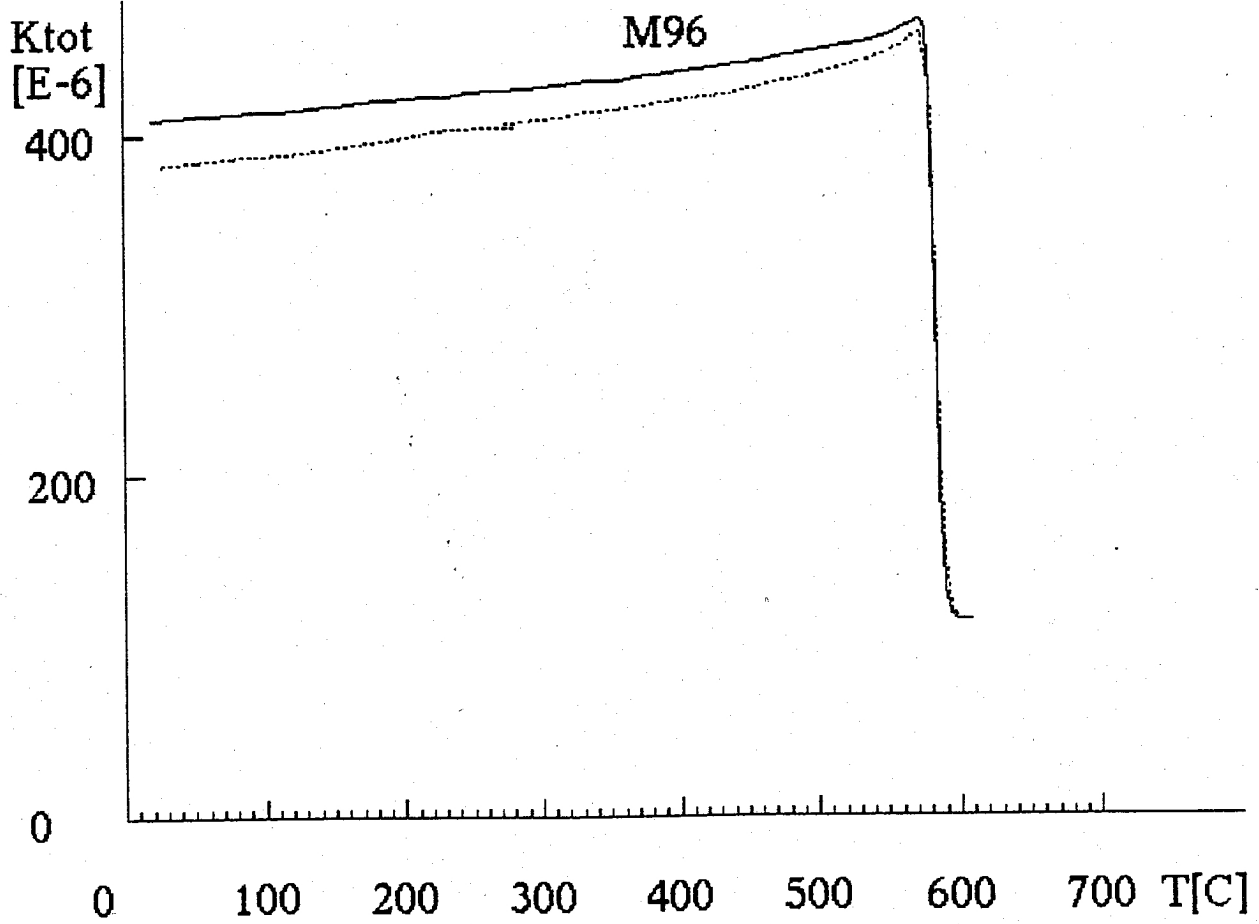
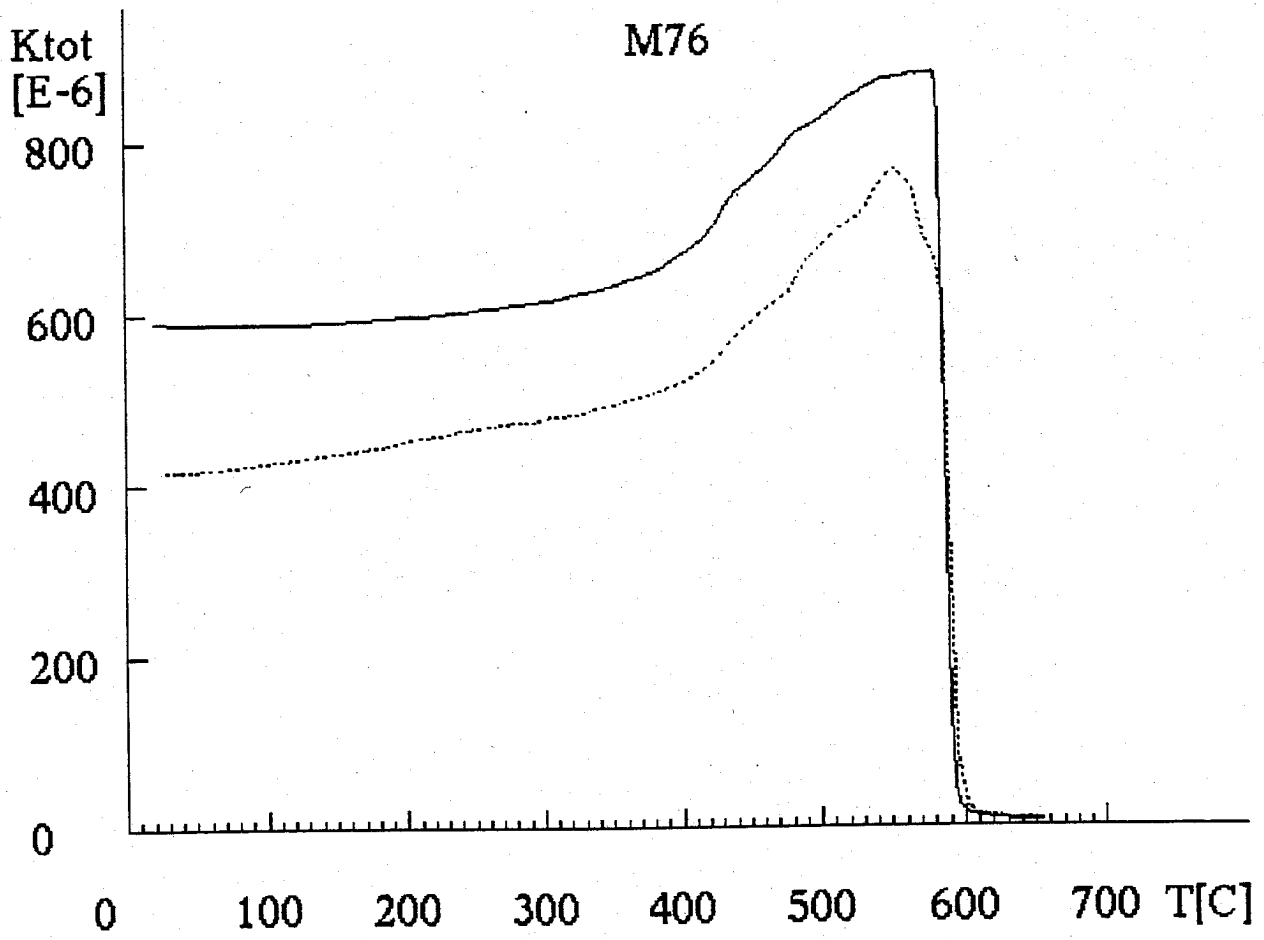
Although known relatively early (see, for example T. Nagata, *Rock Magnetism*, Maruzen Tokio 1961), this technique has become a routine method only after the recent development of the convenient instruments available commercially (among which the CS-2/KLY-2 or the CS-3/KLY-3 instruments manufactured by the AGICO Inc., Brno, Czech Republic, are probably the most sensitive and accurate, see AGICO Prints Nos. 5, 16 to 19).

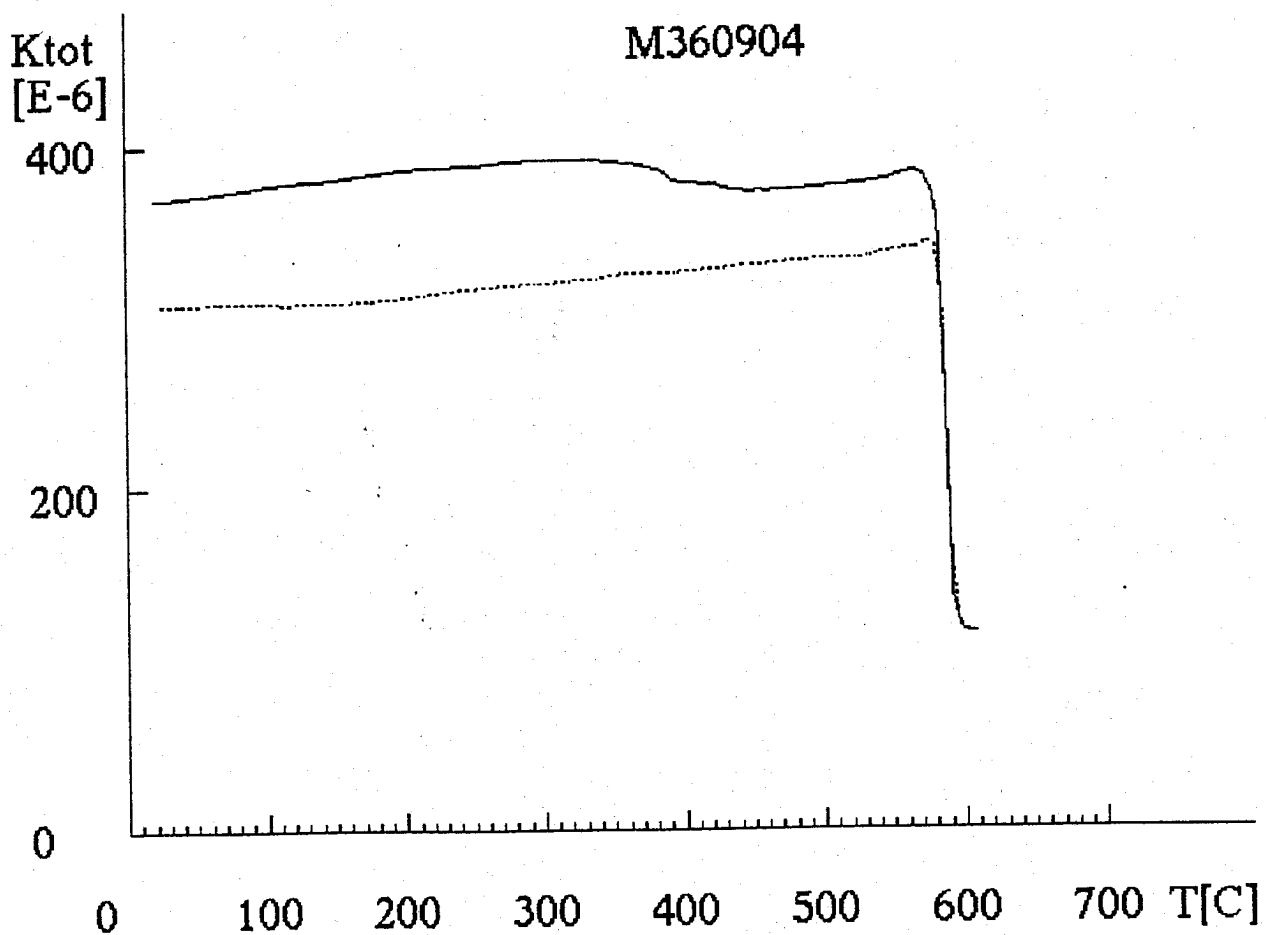
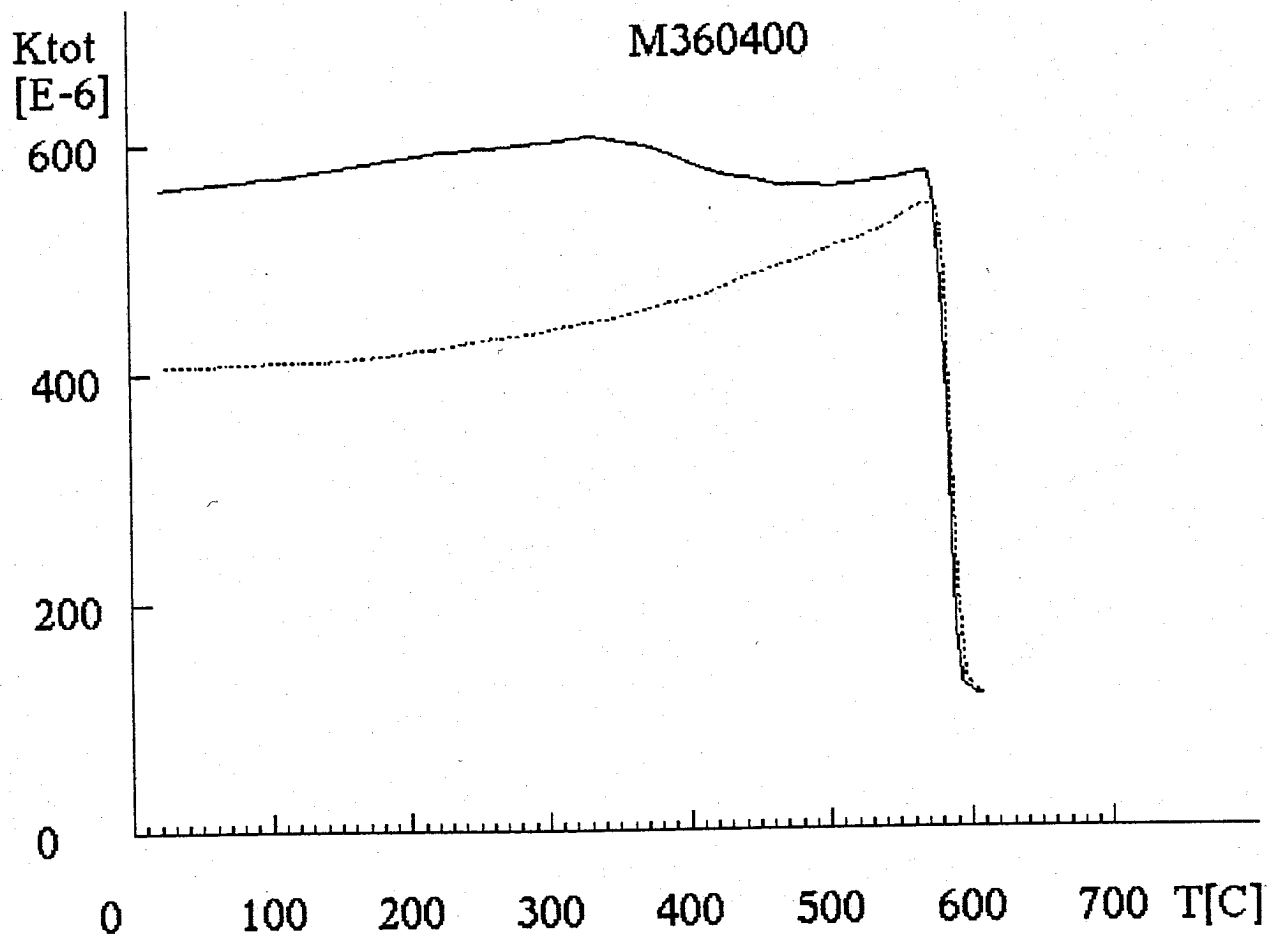
As the scientific literature dealing with the temperature variation of magnetic susceptibility of rocks is relatively limited, our customers often feel a need of a catalogue of thermomagnetic curves which could be used as reference material in the interpretation of their measurements. As we have investigated relatively numerous collection of minerals or monomineralic fractions, we are able to present thermomagnetic curves of some important minerals. In order to help our customers in the beginning of their work, we present below our thermomagnetic curves. The reader can obtain an idea of the outlook of the thermomagnetic curves of individual minerals and their variation. Unfortunately, we are not able to do any interpretation of the curves physical or geological. Nevertheless, we believe that their presentation is useful for the colleagues who just start with such a kind of the investigations.

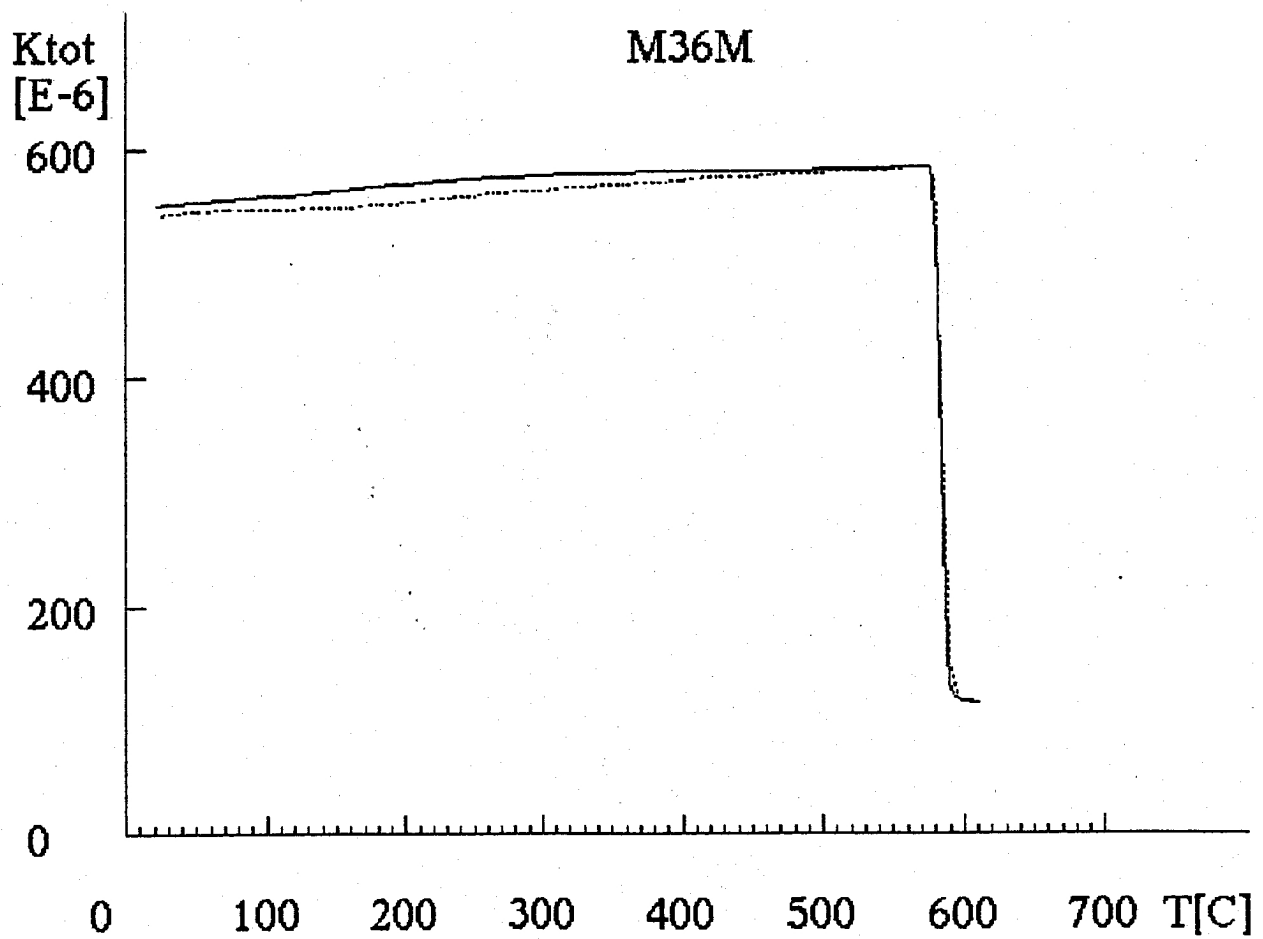
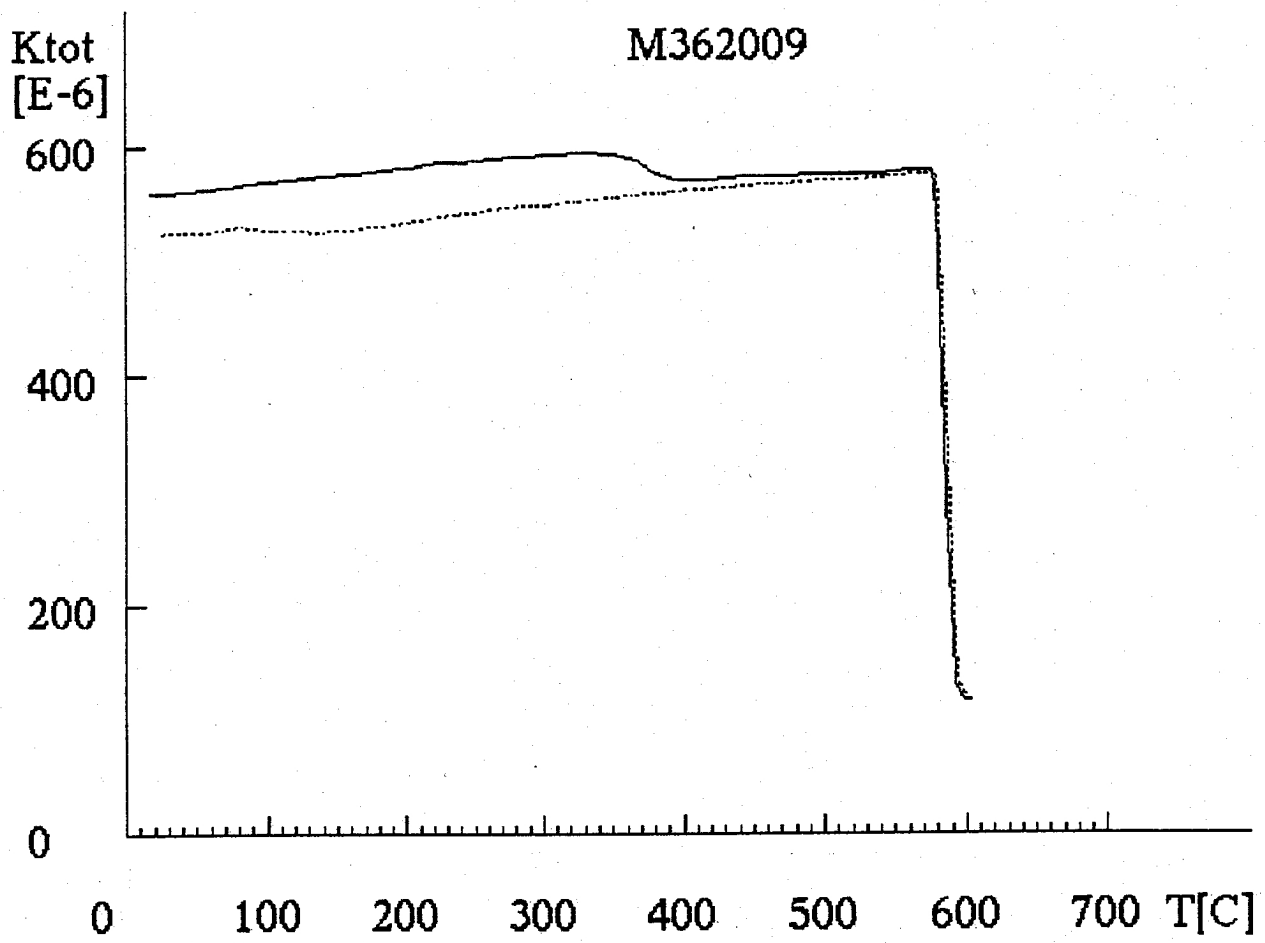
The susceptibility data are presented in so called total susceptibility (not corrected for the specimen volume or mass) in the order of 10^{-6} [SI]. The heating curves are drawn in full line, while the cooling curves are dotted.

MAGNETITE

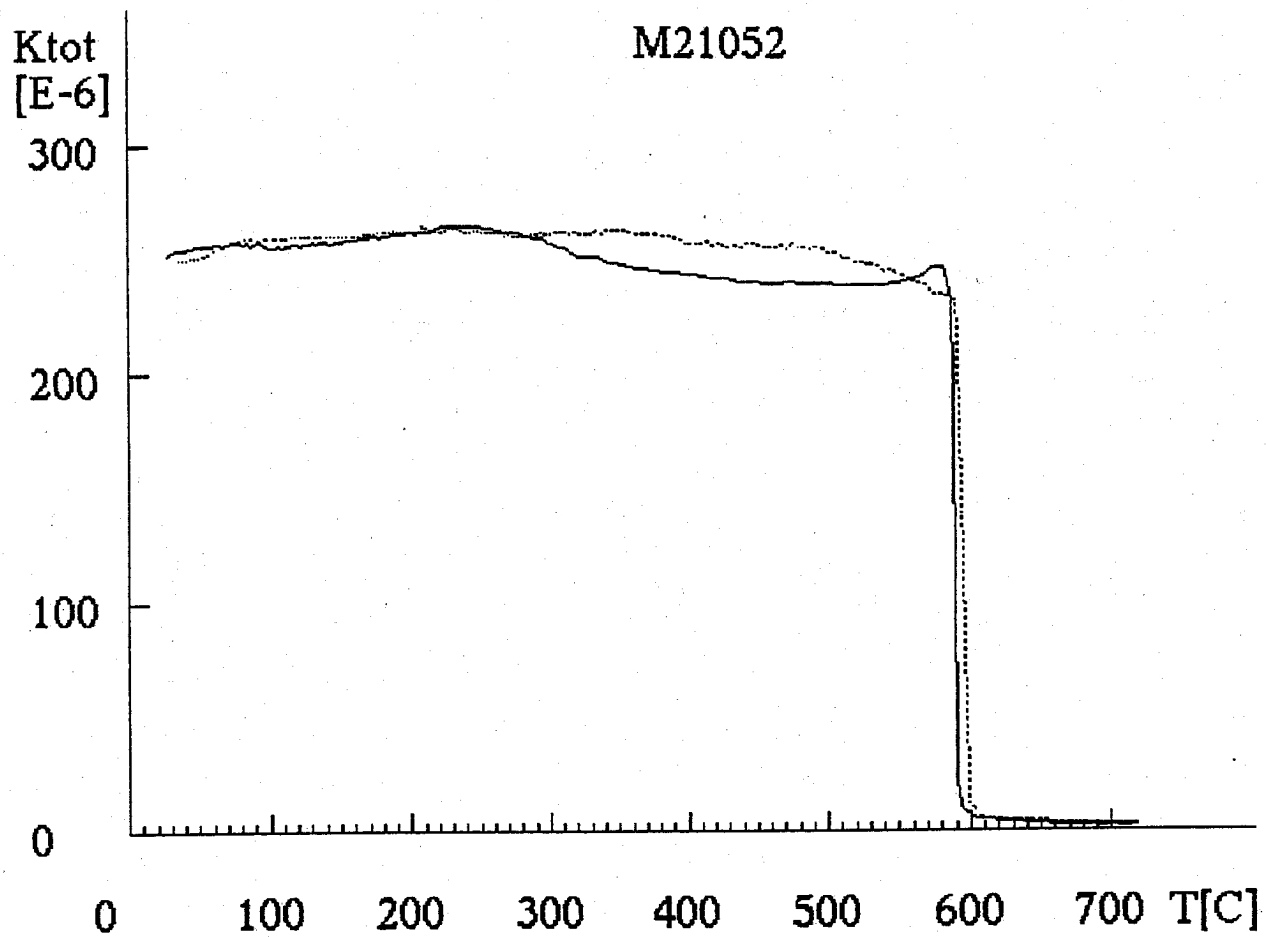


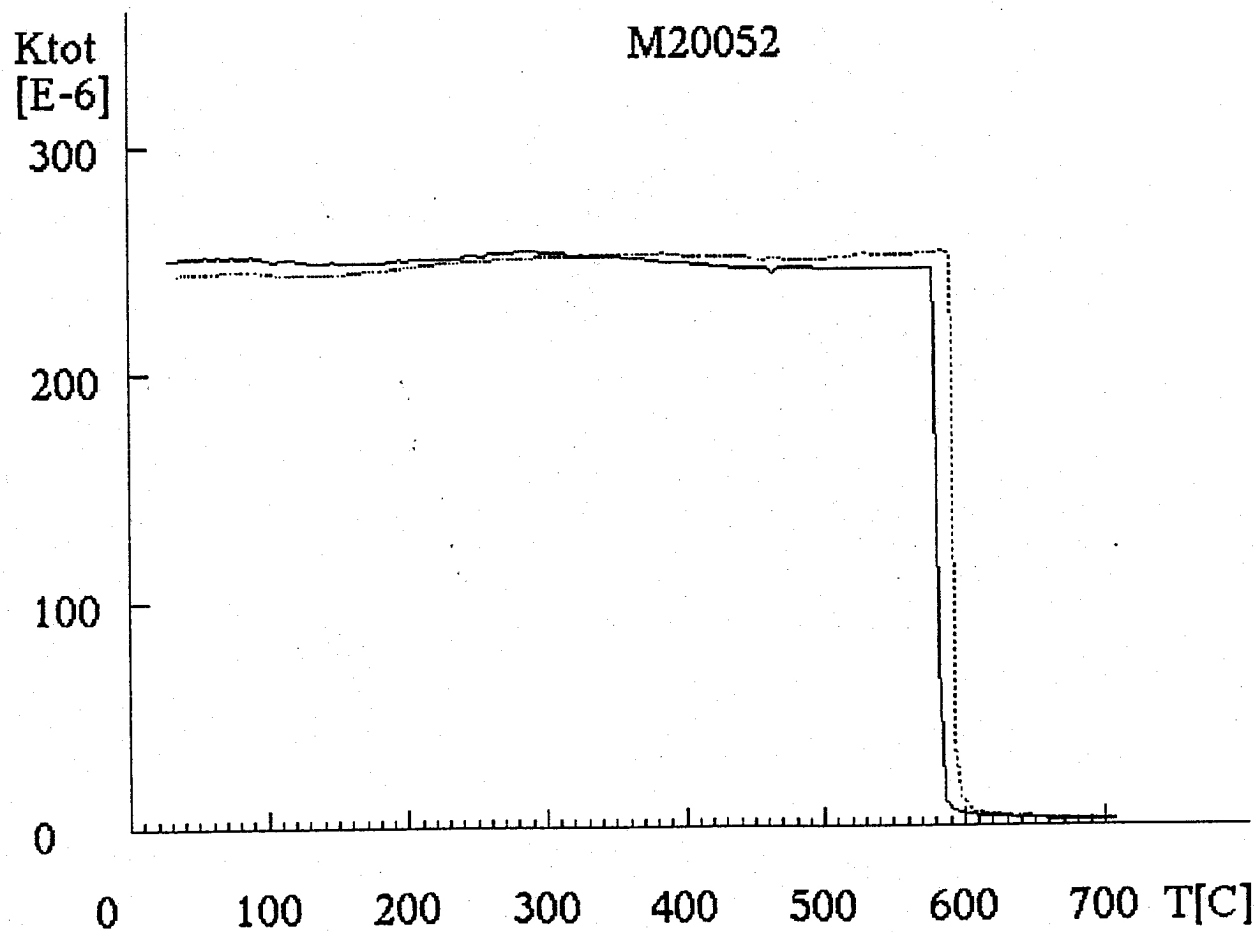
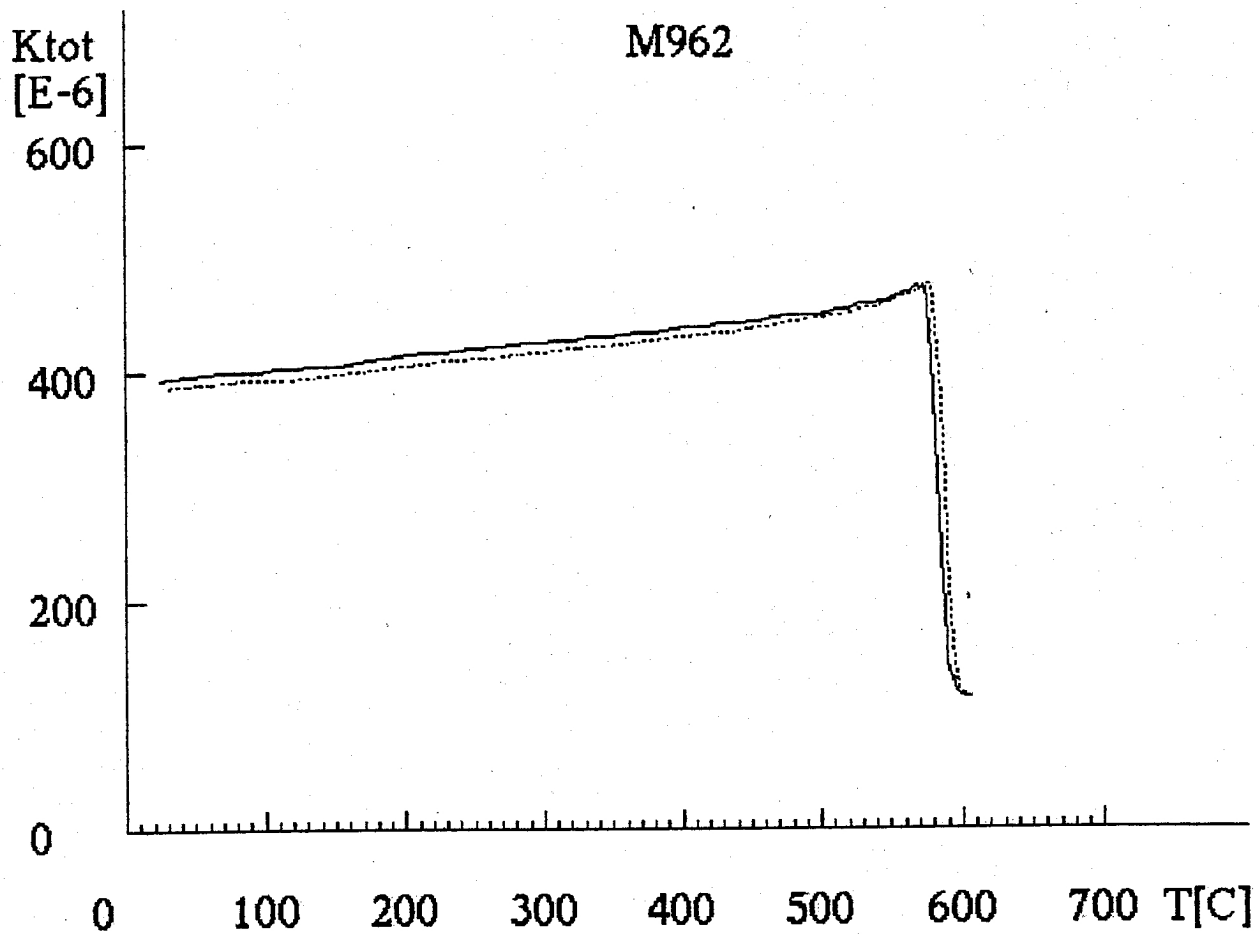




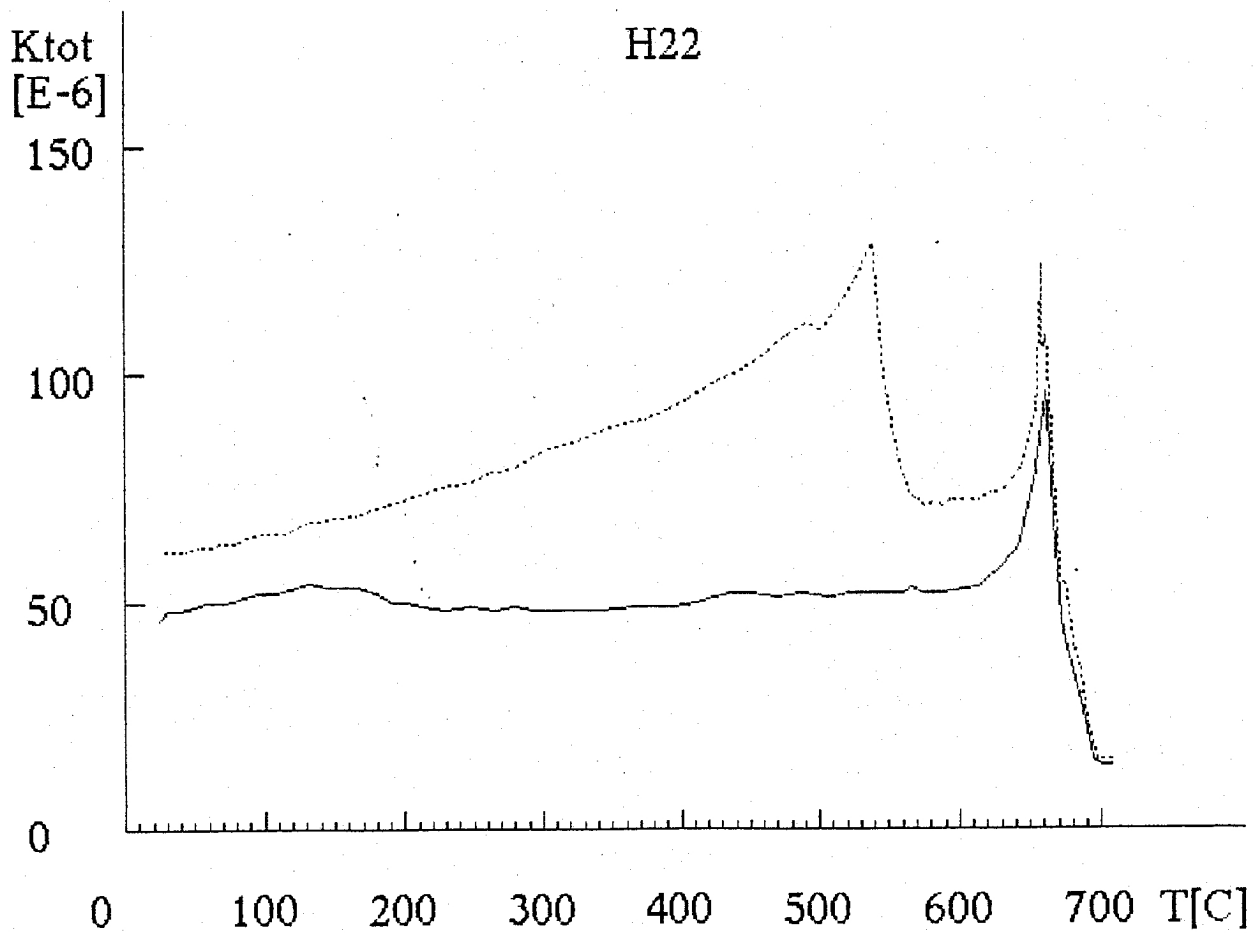
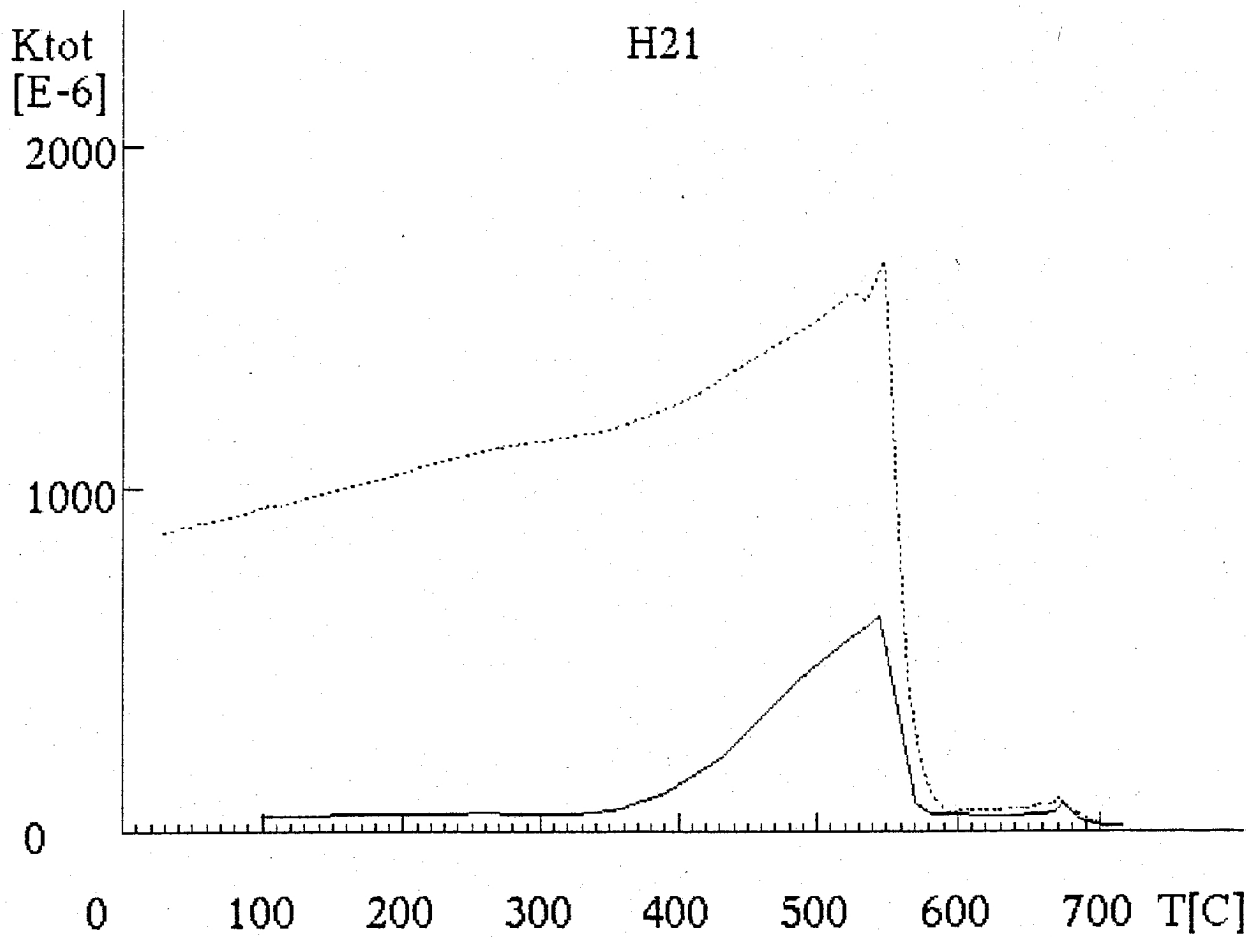


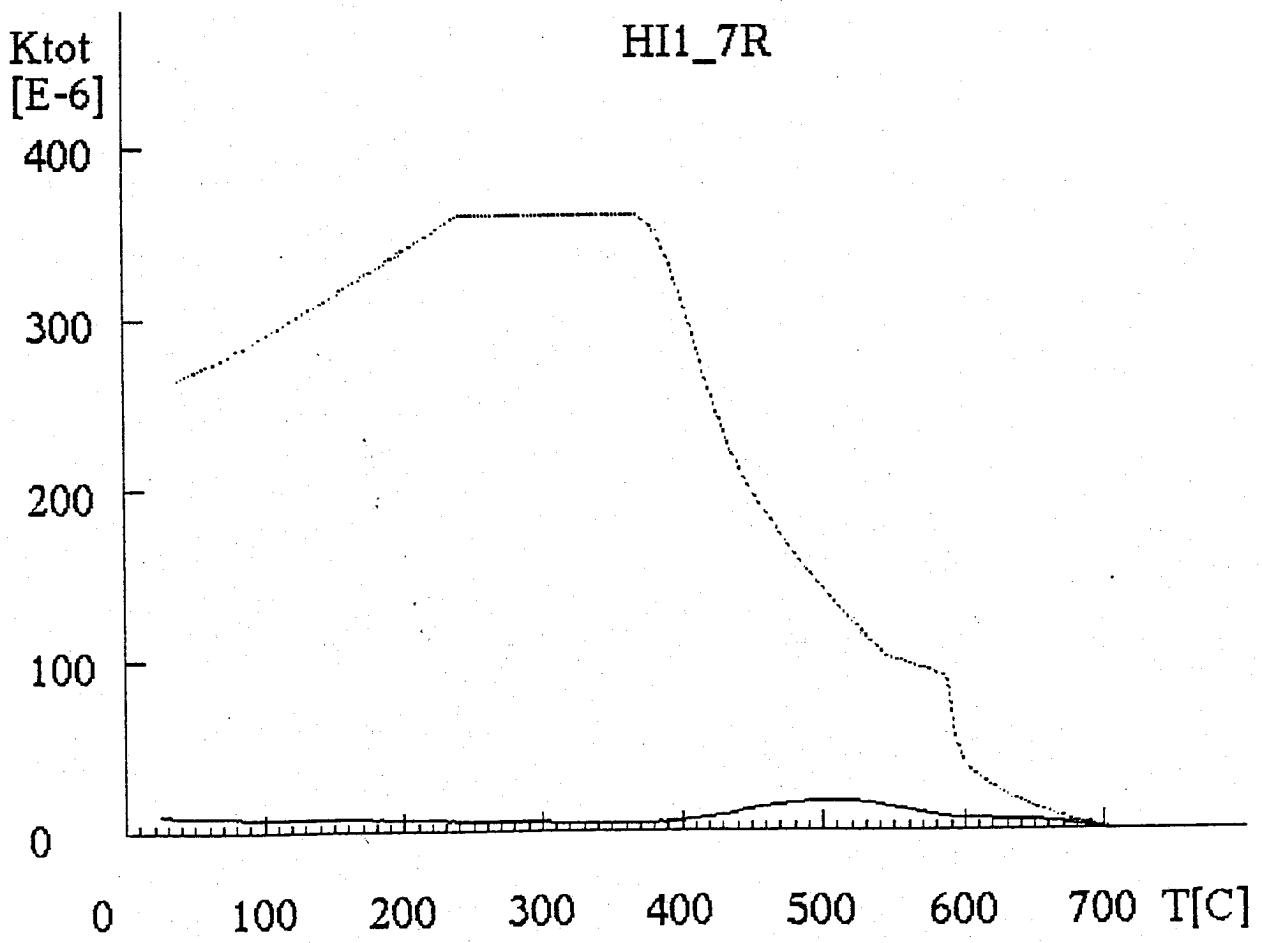
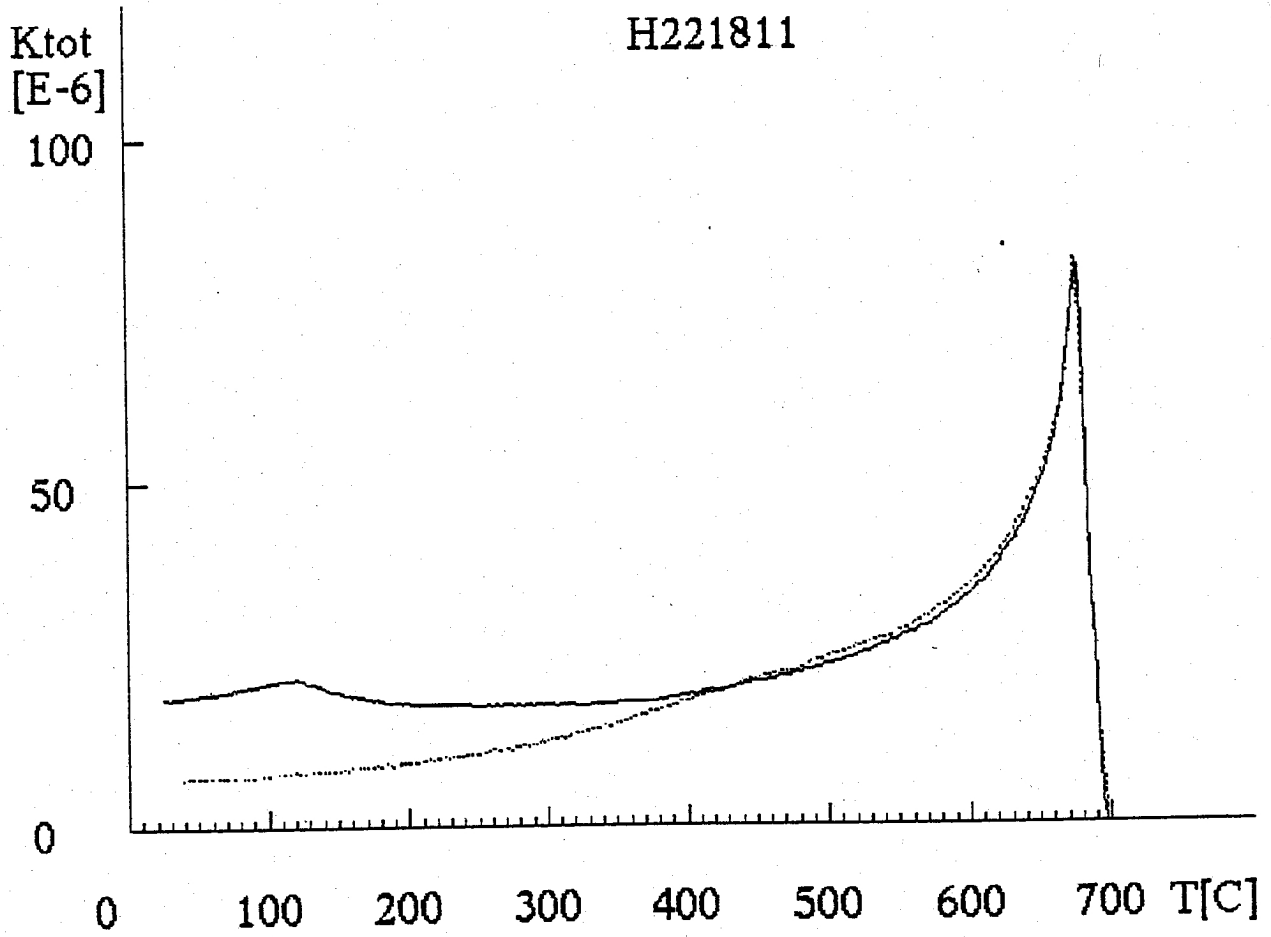
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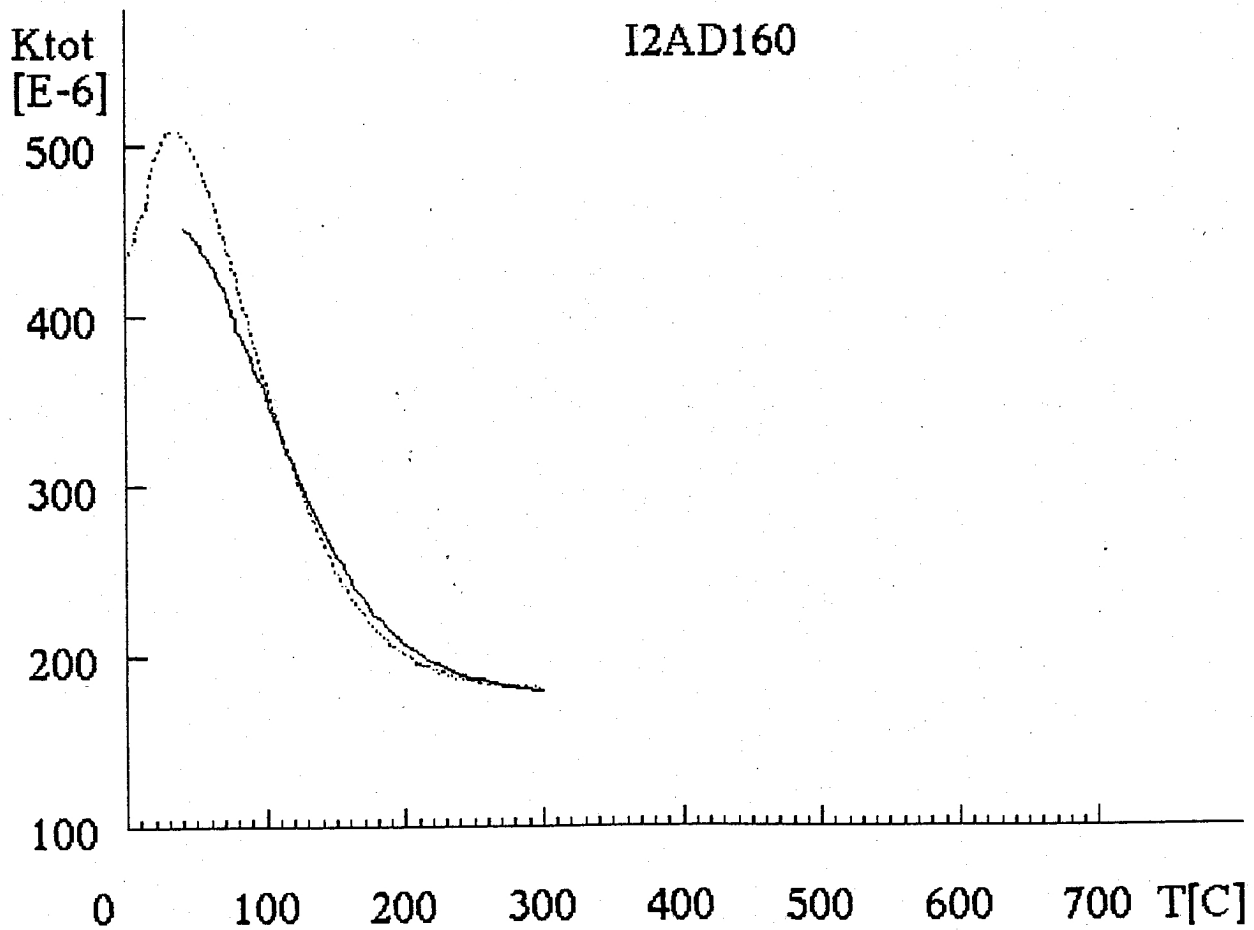
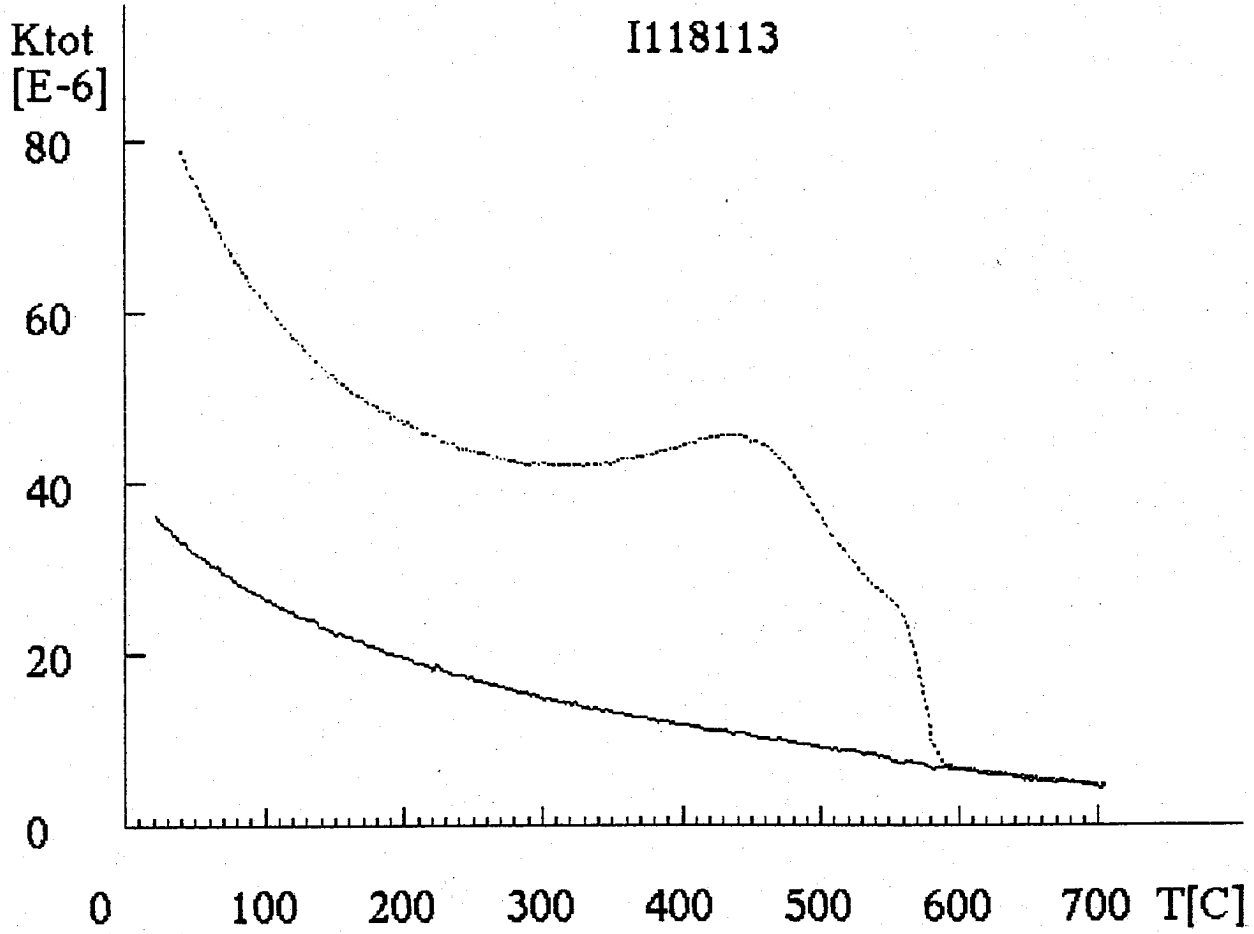


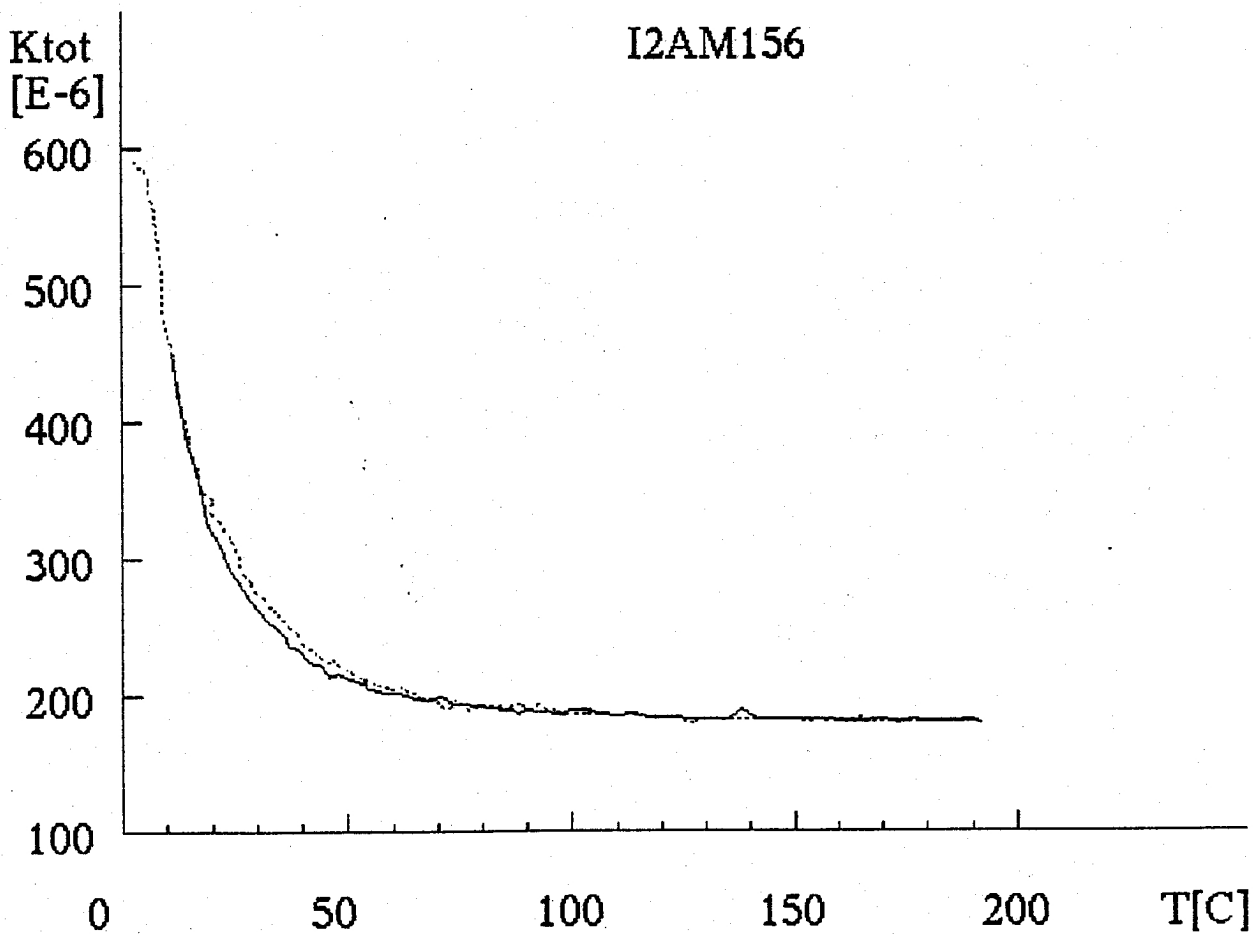
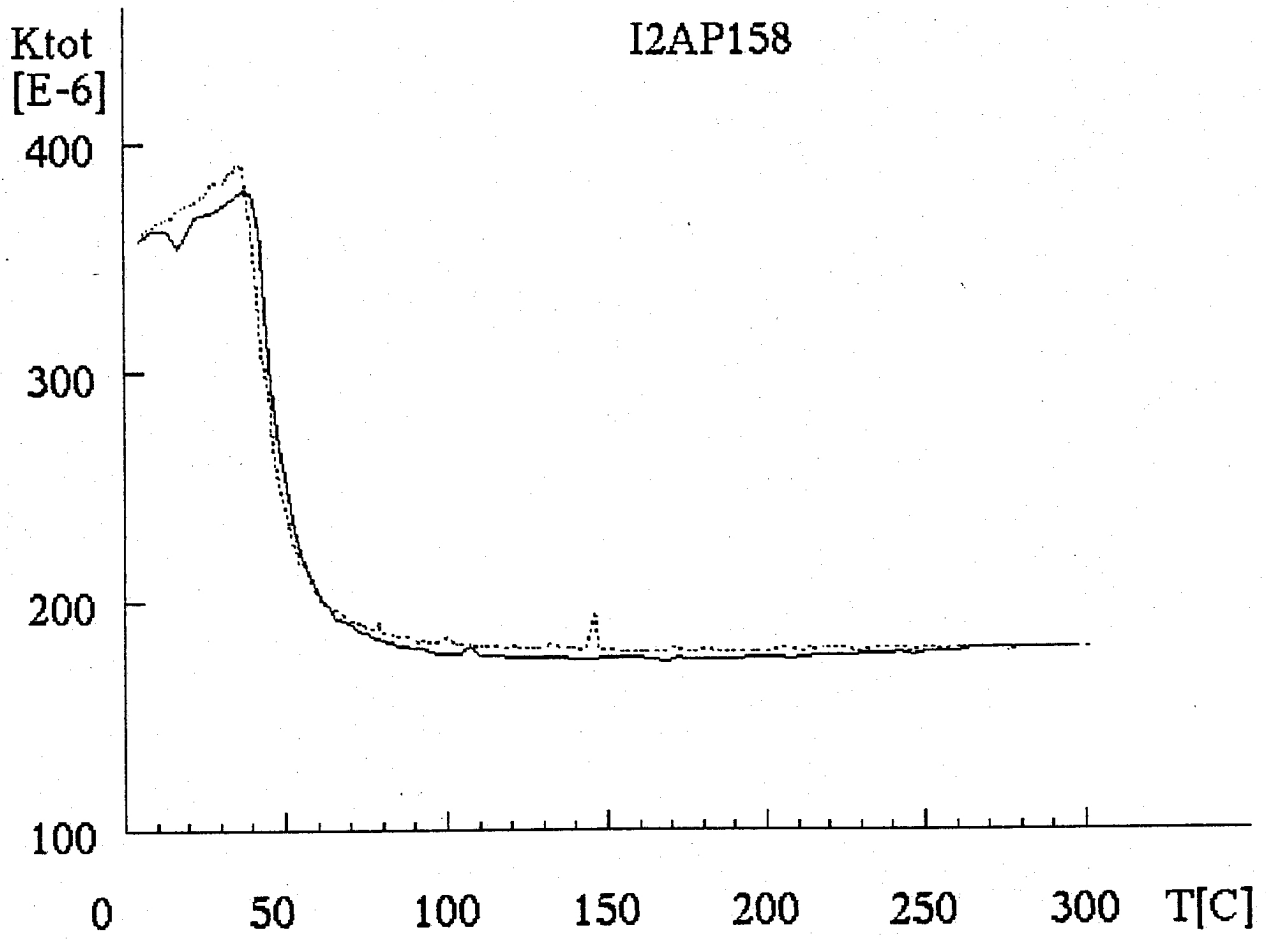
HEMATITE



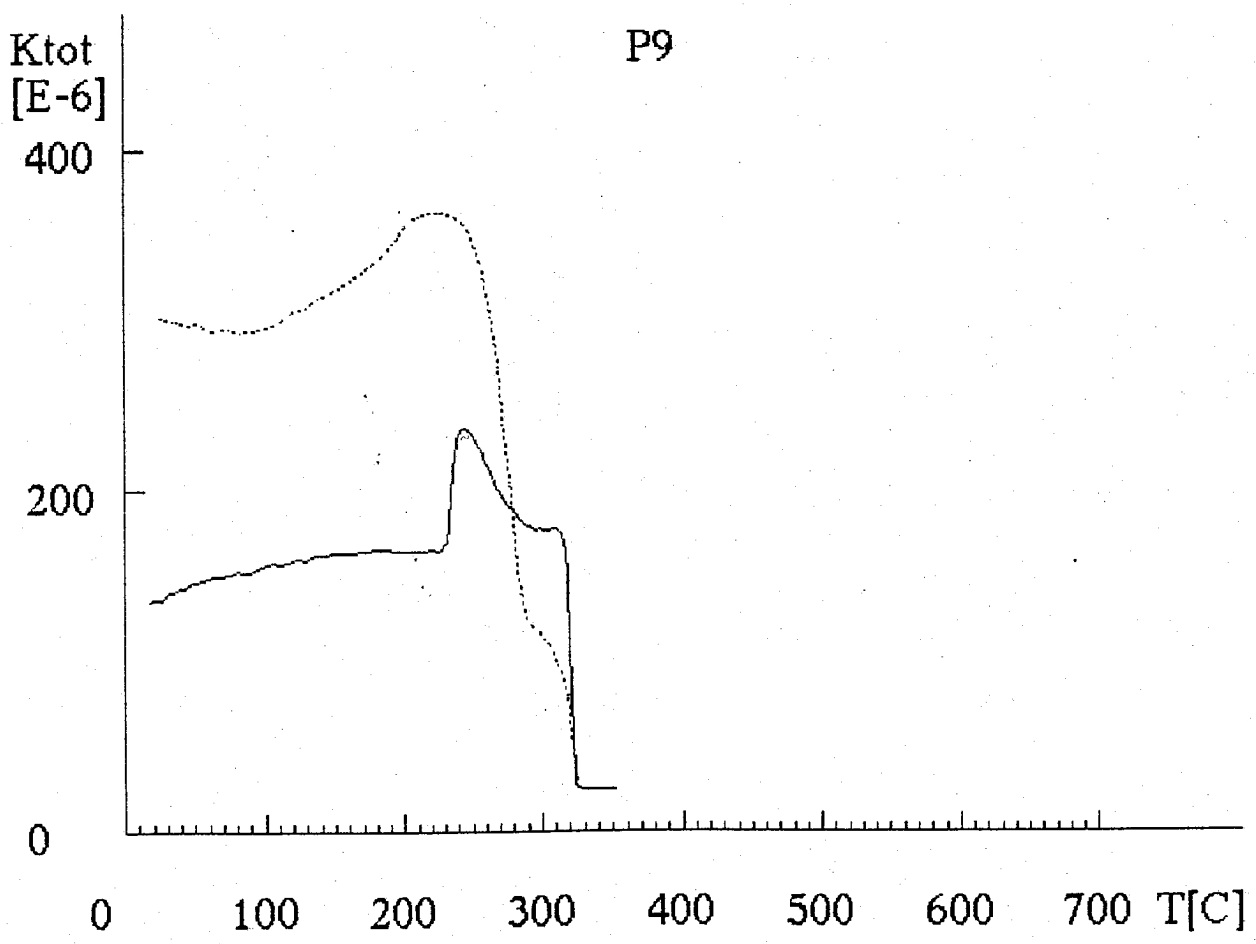
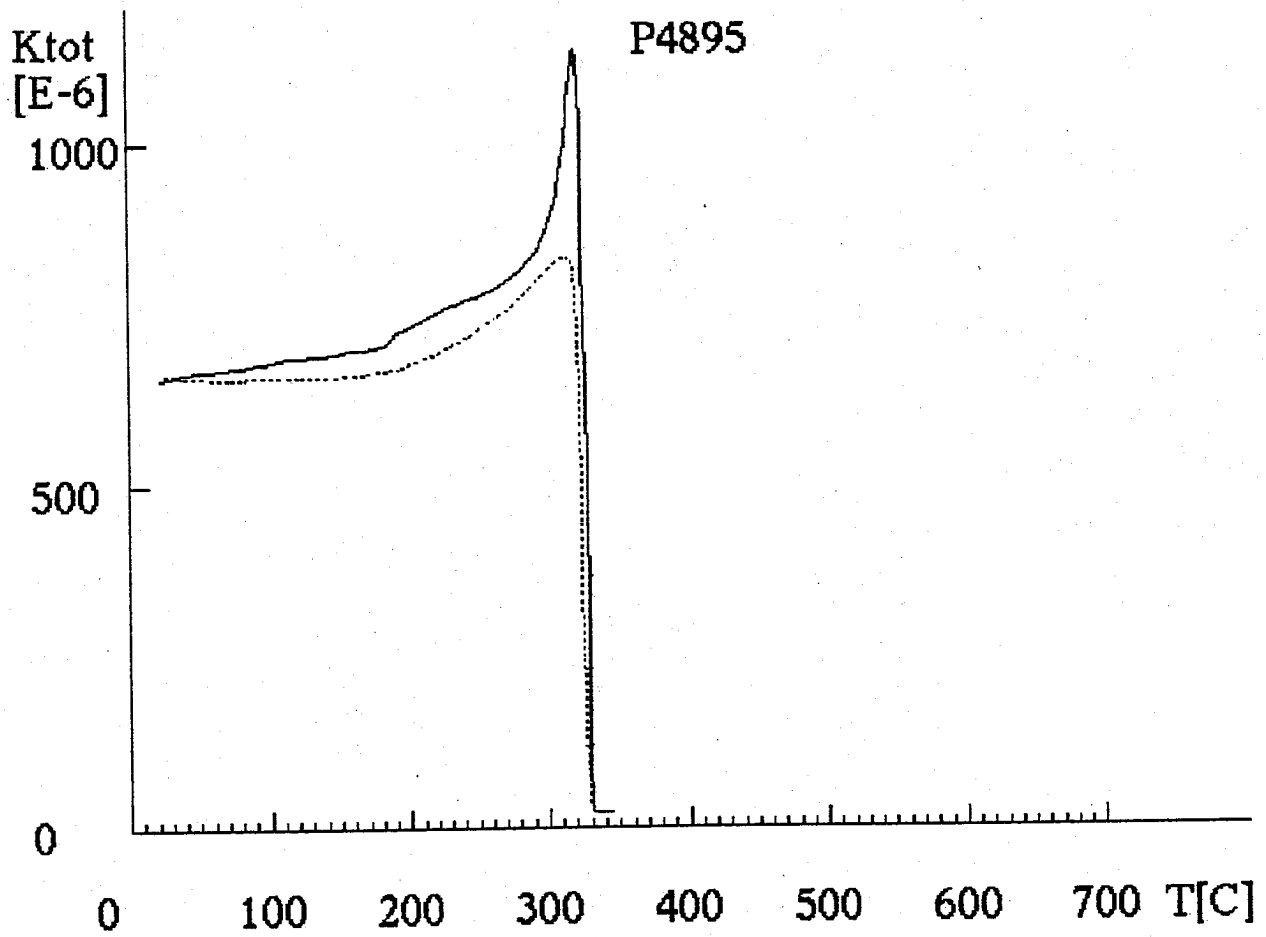


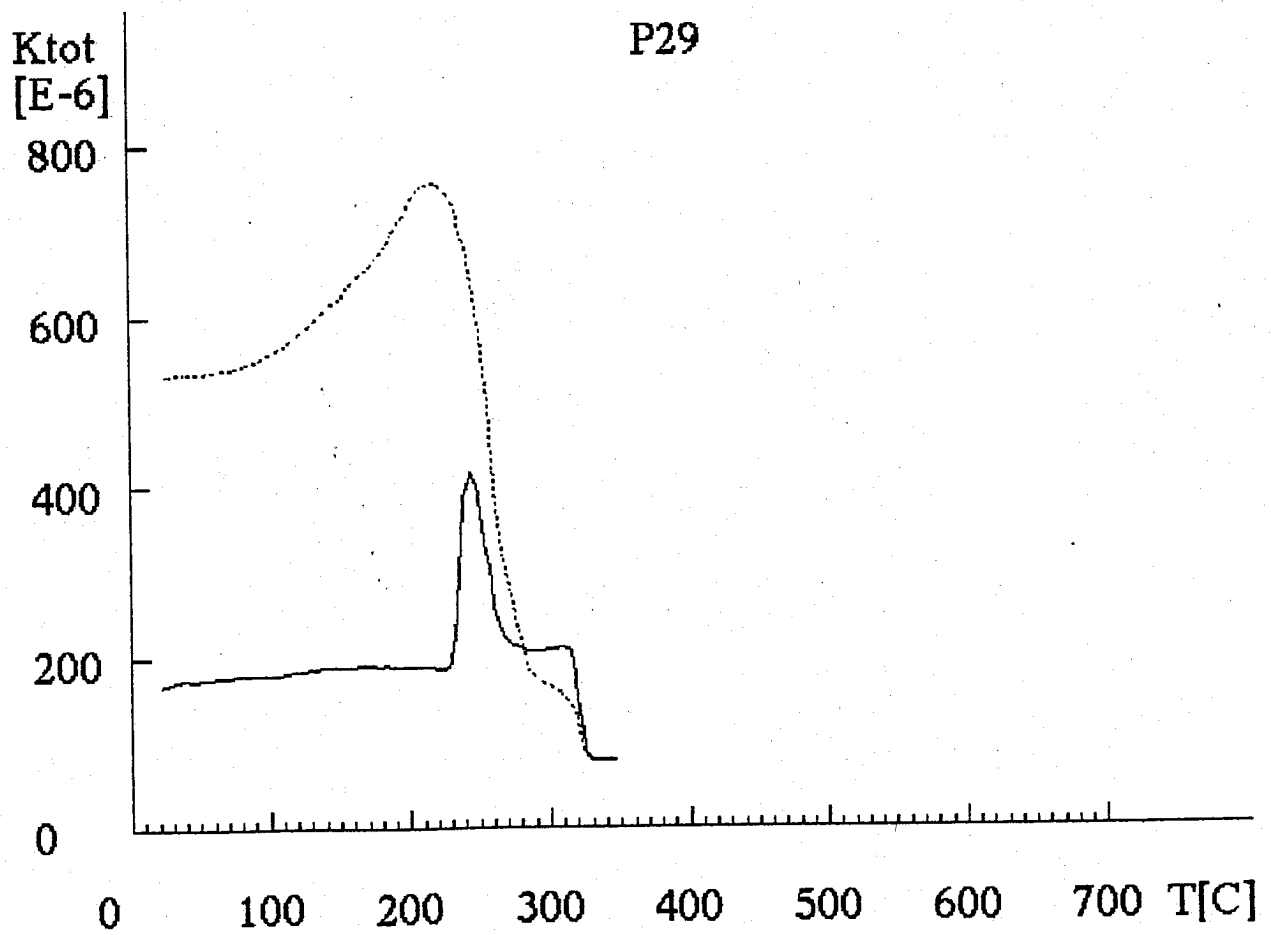
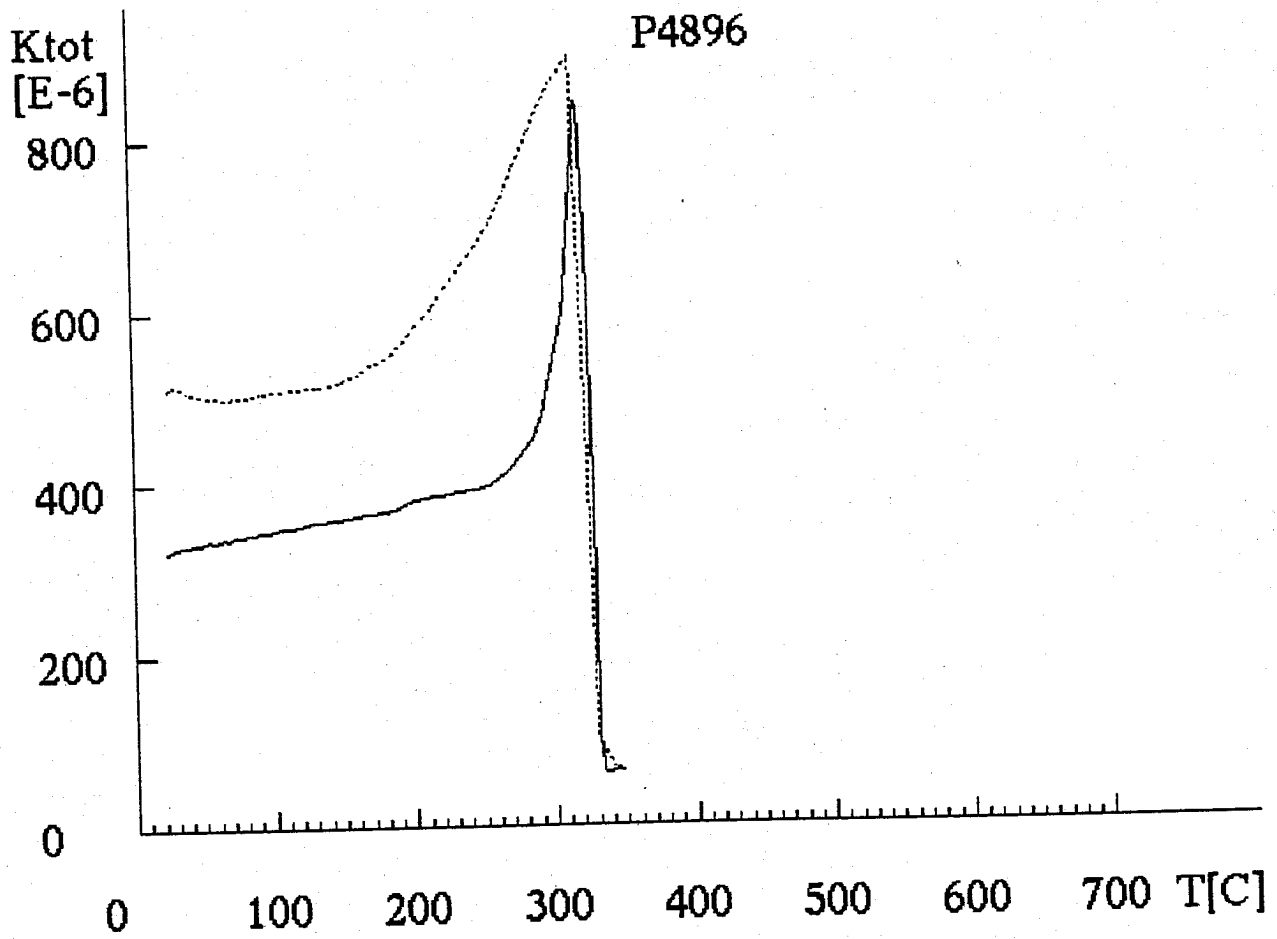
ILMENITE

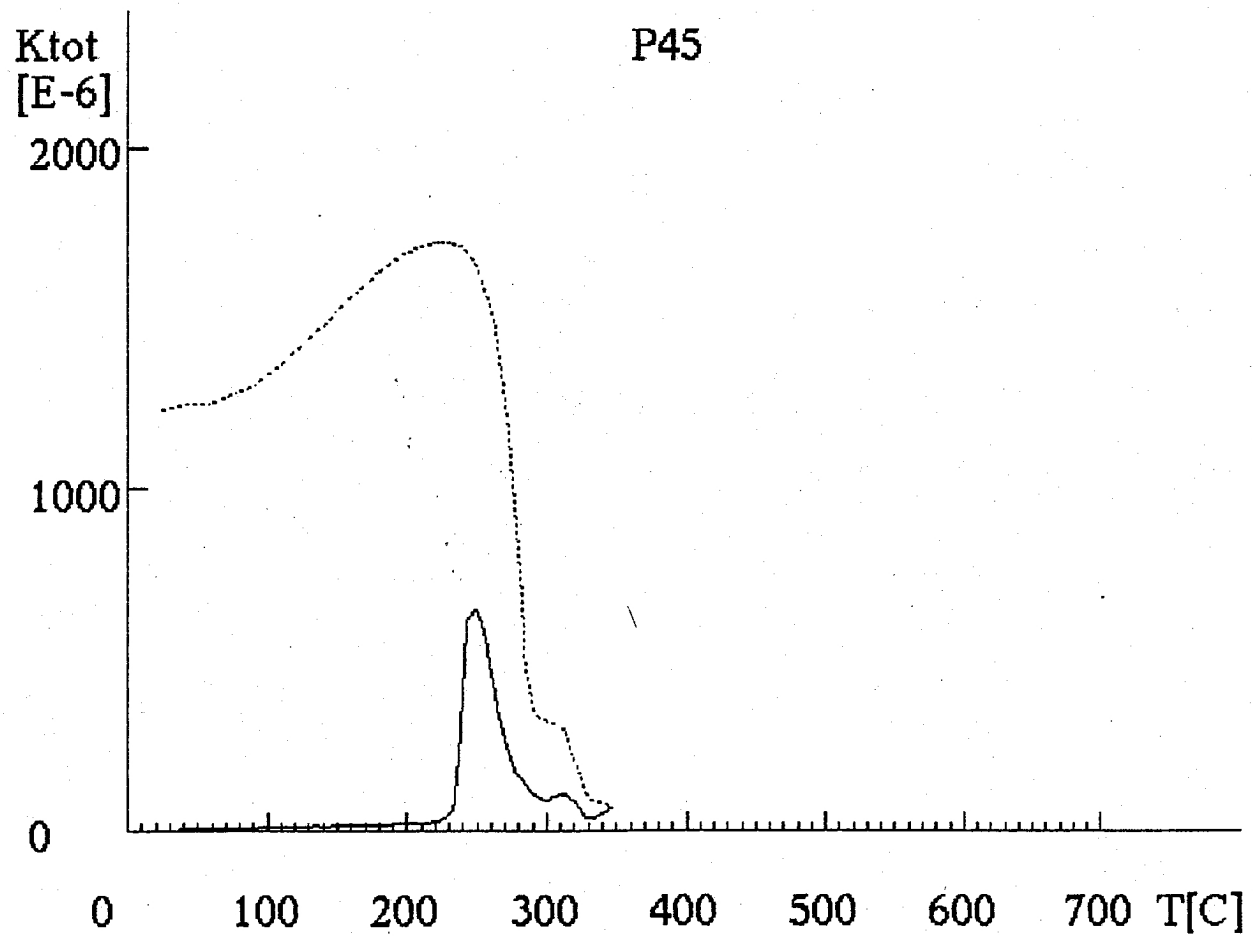
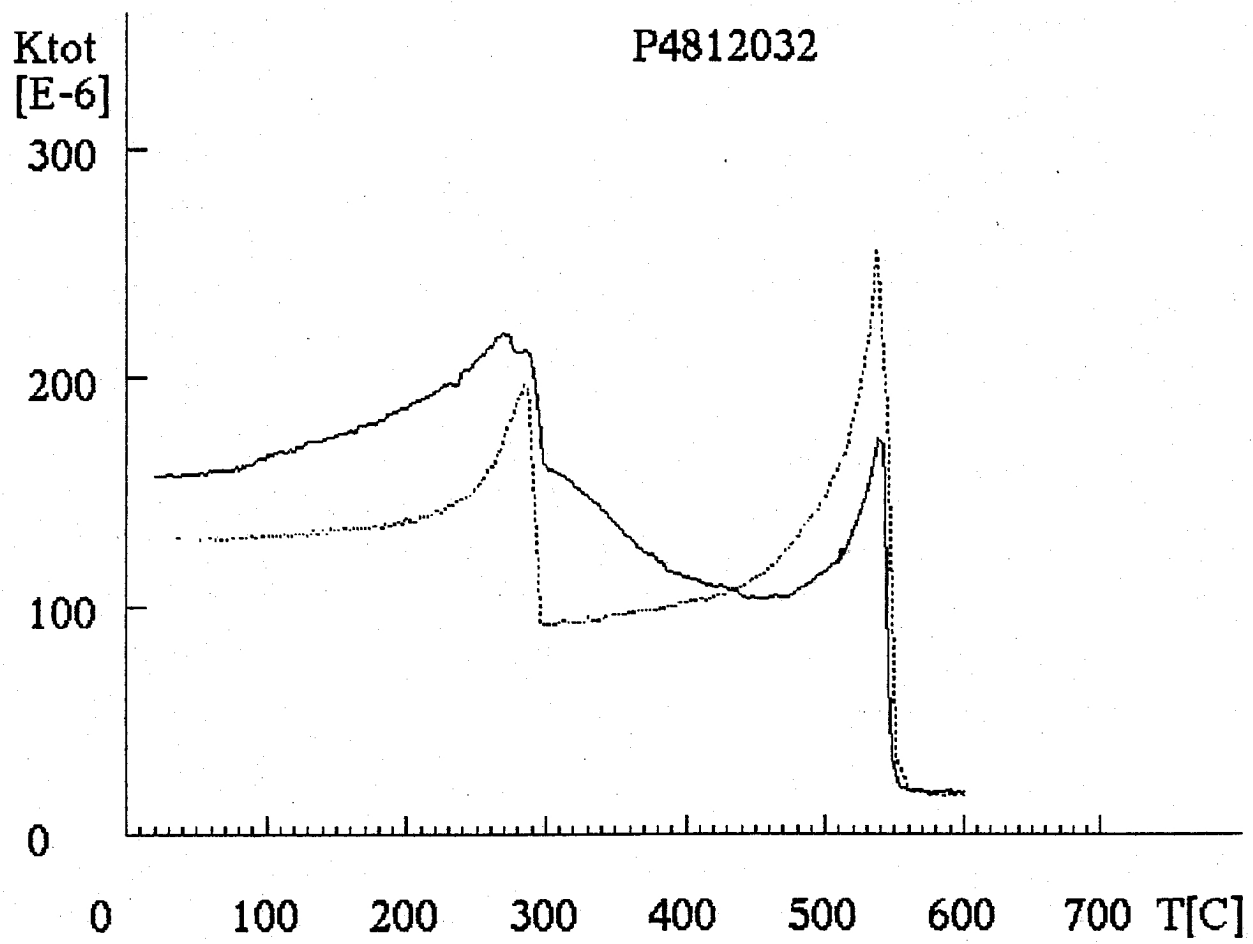




PYRRHOTITE

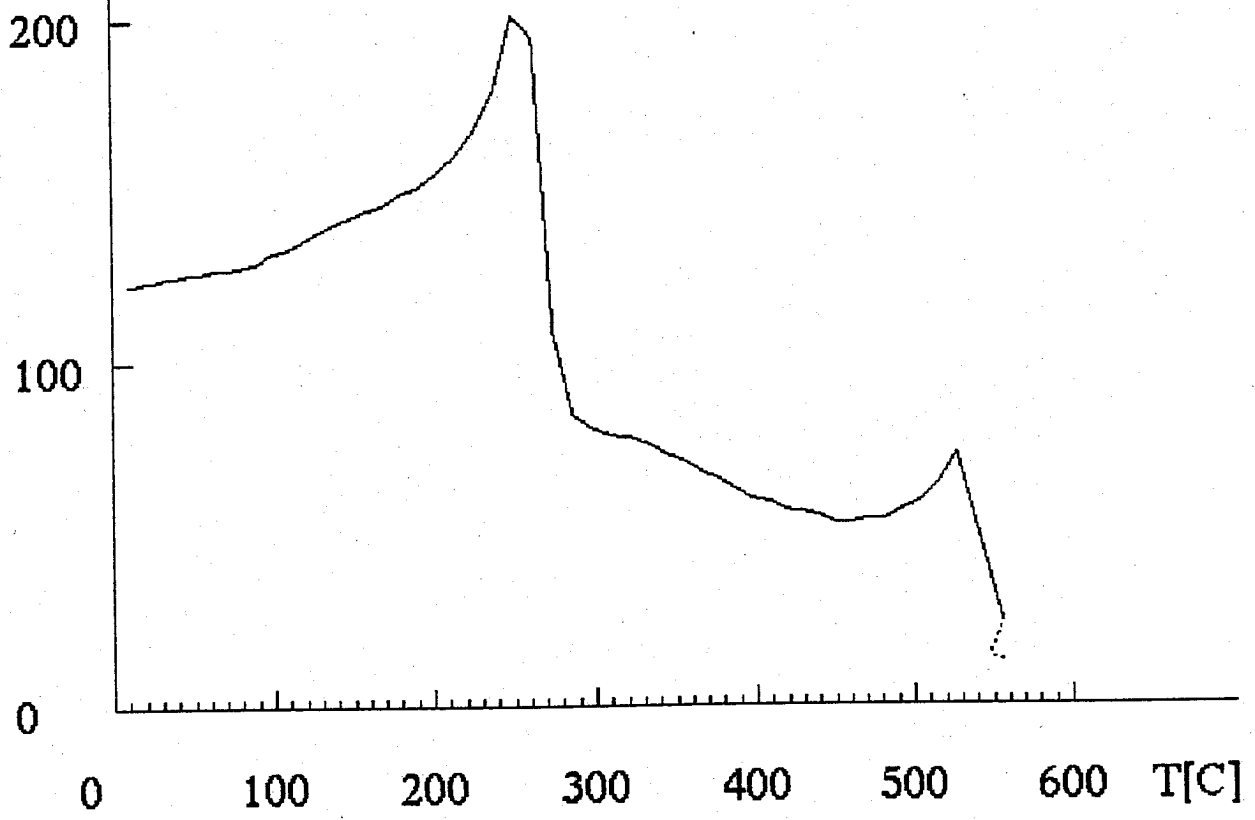






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GREIGITE

