COMPARISON BETWEEN THERMAL TREATMENTS
OF ITUTINGA METEORITE FRAGMENTS.
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Abstract: The main mass of the iron meteorite Itutinga¹
IIIAB belonging to the group and the structural classification oc-
tahedrite medium (Om) has in collection of the Museum of Sci-
cence and Technic of School of Mines of the Federal University of
Ouro Preto, Minas Gerais state, Brazil. Fragments of the meteor-
ite were subjected to thermals treatments in different tempera-
tures, the usual technique in the field of Metallurgical and Mate-
rials Engineering. The first sequence of treatments used the heat-
ing temperature reached was 900°C and second 1350°C in differ-
ent furnaces. Analysis of optical microscopy for the fragments
which was subjected to the first treatment revealed the appear-
ance of cracks. The identified cracks is compatible with the ther-
mal treatments carried out particularly in the heating process at
high temperatures². The second sequence of thermals treatments
produced more cracks and appearance of alterations in the micro-
structures³.

References: [1] Buchwald, V. F. Handbook of Iron Meta-
orites, Their History, Distribution, Composition, and Structure.
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E. Cracks in metallic meteorites, Journal of Materials Science,