

Measurement of thermophysical properties of liquid metallic alloys in a ground- and microgravity based research program. The Thermolab Project

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An outline of the Thermolab Project is reported with the aim of informing on the wide range of properties which are becoming available for some industrial alloys. Selected examples of experiments and properties are provided.

Keywords: physical metallurgy, solidification, materials characterization, property

INTRODUCTION

The numerical modelling of casting and solidification of metallic alloys is becoming of increased importance in industrial processing. Applications include the optimisation of production technology, resulting in a reduction of scrap rate, waste production, and energy consumption as well as the design of new and improved casting techniques for high temperature alloys with applications in power generation, transport, and the health sector [1]. In order to fully exploit the progress in the numerical modelling, reliable thermophysical property data are required as input parameters. These can be divided into properties relevant for heat transfer, fluid flow, and microstructure evolution. Due to the high chemical reactivity of many industrial alloys at high temperature, there is a pronounced lack of reliable thermophysical property data in the liquid phase.

The *Thermolab* project is intended to alleviate this need for selected classes of alloys [2]. The approach of *Thermolab* to this experimental challenge has a three level structure: (i) Final benchmark experiments shall be performed with a containerless electromagnetic processing device in the reduced gravity (m-g) environment of the International Space Station, (ii) short and intermediate duration m-g experiments such as parabolic and sounding rockets flights and, (iii) a vigorous groundbased experimental programme using containerless as well as more established thermoanalytical techniques to provide comparison values for the m-g experiments as well as to provide reasonable thermophysical property values to the members of the industrial project user group (PUG) throughout the duration of the project.

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The *Thermolab* project started in August 2001 with participating scientific groups from France (CEA Grenoble), Germany (DLR Cologne), University of Ulm, Italy (IENI Genova, University of Torino), the UK (Imperial College, National Physical Laboratory), and Sweden (KTH Stockholm). The project is co-ordinated at the University of Ulm. An essential aspect of the project is the close collaboration with an industrial project user group, PUG, representing the major companies in the field. The PUG suggested the alloys for the project and those thermophysical properties most important to them. The alloys selected were: *Ni-based superalloys*, *Ti-alloys*, *Steels* and *Cu-alloys* [3].

In order to support the rationale of the project on a broader basis, a survey was conducted among European industries to map out their need for thermophysical property values. Over 300 responses were received from about 1000 questionnaires sent out, reflecting the large need of thermophysical property values in industry. A report to ESA was compiled and distributed to industries and trade organisations. Here, we show a few typical results of the survey.

The distribution of commercial interests of those companies returning the questionnaire and the distribution of thermophysical properties valued of high importance are shown in Figs. 1 and 2, respectively. According to Fig. 1, commercial interest is rather evenly distributed between foundry, casting, spray casting, secondary refining and alloy production followed by primary metal production. Regarding secondary

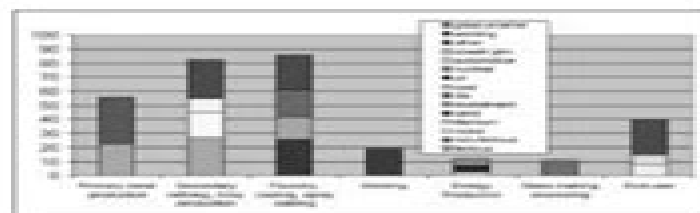


Fig. 1 - Histogram showing the distribution of commercial interest of those returning questionnaire, Europe.

Fig. 1 - L'istogramma mostra la distribuzione dell'interesse commerciale del questionario che sono stati restituiti in Europa.

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