



# Cryogenic Material Data Capture

## Case study

**EASL performed a materials data review for 40 material types at cryogenic temperatures. The material types at cryogenic temperatures, have been broadly classified into different categories based on their application: structural materials, superconducting materials, solders and potting compounds.**

**The objective for this classification is to organise ideas, define the scope and identify areas of complexity. The initial literature review is performed with the aim of compiling a detailed list of main sources of material information for the material groups as classified above.**

## Our approach

This initial review is undertaken using EASL's internal resources and collection of standards and publications. This will include the use of material data handbooks as well as ASM and ASTM material data standards. This preliminary review will be supplemented with the information obtained from external resources including universities, learned bodies and professional institutions. It should be noted that EASL collaborate and maintain strong links with leading UK universities through memberships of their industrial advisory boards. In addition to their libraries, this collaborative arrangement also enables us access to their vast research and technical resources. A secondary review is undertaken to investigate further and consult alternative sources for those material properties where less or no information has been identified. The material's data is to be presented in JSON format to facilitate data exchange.