

## **Measurement Data**

### Helium-3 insert measurements

Demonstration of the He-3 Insert Temperature Stability



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## **Measurement Data**

### High Temperature Option

To perform measurements above room temperature, furnace or heated sample probe insert is offered to increase the temperature range to 700K.

A series of measurements can be performed over the whole range from 1.6K to 700K



Magnetisation of typical Paramagnetic Salt



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## **Measurement Data**

6% Al impurity in a Ti alloy in a Si grease suspension for good thermal conductance





## **Measurement Data**

Measurements for the SQUID Magnetometer

### **Relaxation Measurement**

The sample was cooled down to 2K in zero field, the first measurement was made after a field change of 1T. The intervals in time between measurements increase in pseudo logarithmic steps. This example demonstrates continuous operation at temperatures below 4.2K.



Magnetic Viscosity as a Function of Temperature of G - Fe2-O3 particles in silica



Figure 3. Magnetic viscosity as a function of temperature.



## **Measurement Data**

Magnetic Moment of the of G - Fe2-O3 particles in silica Sample



Figure 1. Total magnetic moment of the sample, measured in ZFC and FC procedures. The inset shows the size distribution of the particles deduced from transmission electron microscopy.

#### Helium-3 insert measurements

Paramagnetic Salt CMN-Temperature Calibration Study of the Helium-3 Insert





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### High Pressure Cell

To perform measurements at high pressure, we provide the MC10 and MC Ultra pressure cells from easyLab.



### Ultra low field option

Demonstration of the ultra low field measurement option using a diamond anvil pressure cell on a sample of Pb.





## **Measurement Data**

### Ultra low field option

Superconducting Transition of Lead (average resolution 3 x 10-12Am2/3x10-9 emu)



Temperature Ramps

