

Table S1. ICP-MS instrumental parameters used to determine element concentrations in magnet samples.

| <i>Parameter</i> | <i>Type/Value</i> |
|------------------------------------|--|
| <i>Plasma condition</i> | |
| Forward power | 1550 W |
| Plasma gas flow | 15.0 L min ⁻¹ |
| Carrier gas flow | 1.05 L min ⁻¹ |
| Sample depth | 8 mm |
| <i>Cell parameters</i> | |
| He gas flow | 4.3 mL min ⁻¹ |
| Octopole bias | -18.0 V |
| Octopole RF | 200 V |
| Energy discrimination | 5.0 V |
| <i>Data acquisition parameters</i> | |
| Isotopes monitored | ¹¹ B, ²⁷ Al, ⁵⁶ Fe, ⁵⁹ Co, ⁶³ Cu, ⁶⁹ Ga, ¹⁴¹ Pr, ¹⁴⁶ Nd, ¹⁶³ Dy |
| Isotopes of internal standards | ¹⁰³ Rh, ¹⁹³ Ir |
| Integration time per isotope | 0.1 s |

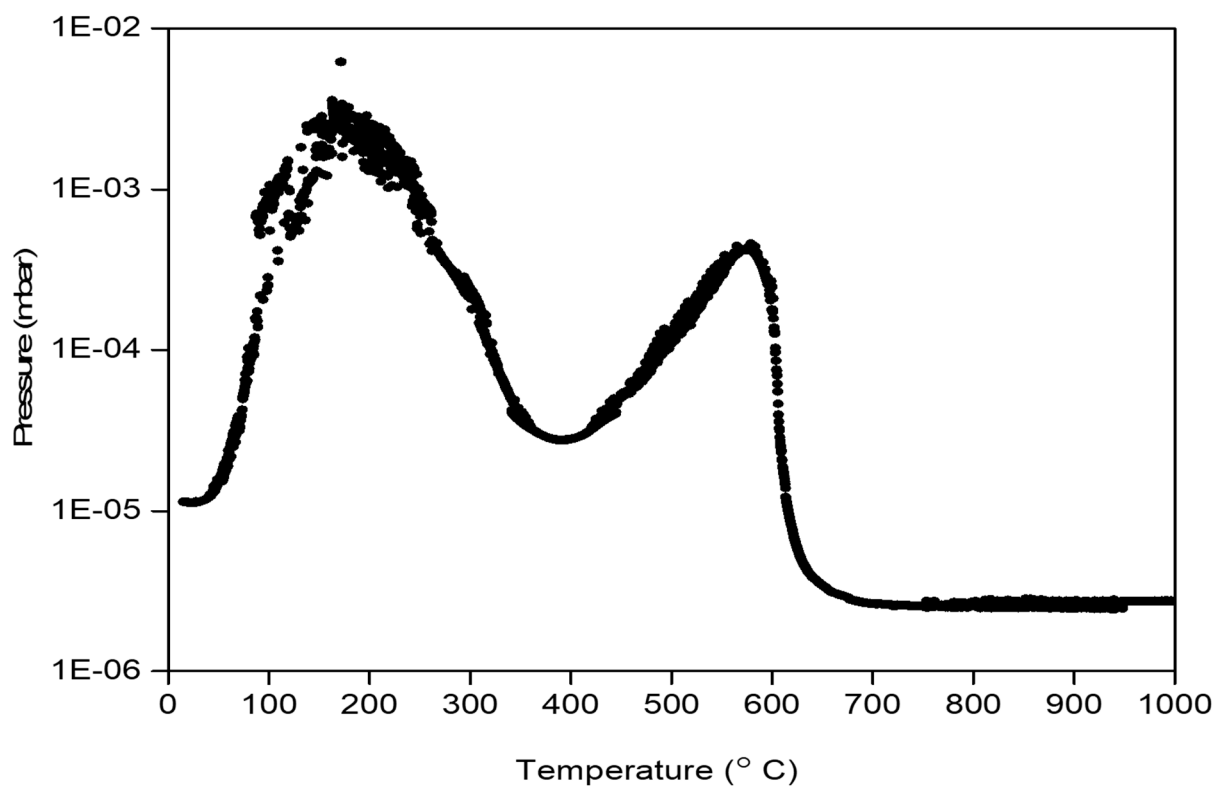


Figure S1. Evolution of pressure with temperature up to 1000 °C for JM-NDG powder.