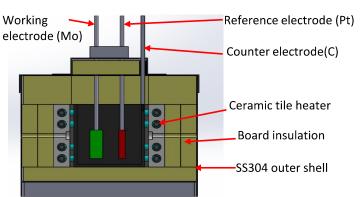
Molten fluoride salt purification facility







sili**e**sz

Graphite crucible containing molten fluoride salts

Electrode assembly

- Schematic of fluoride salt purification facility
- Electrochemical purification facility based on a three electrode system has been developed
- Cyclic voltammetry test of salt were conducted before & after purification

$$0^{2-} \rightarrow 0 + 2e^-$$
 At graphite crucible, reacts with graphite to escape as CO_2 $Cr^{2+} + 2e^- \rightarrow Cr$ Deposited at cathode, removed by surface cleaning

- Facility has been installed and commissioned inside an inert gas glovebox, with oxygen and moisture content below 1 ppm each.
- Purification of IMSBR coolant salt (FLiNaK) was carried out.