

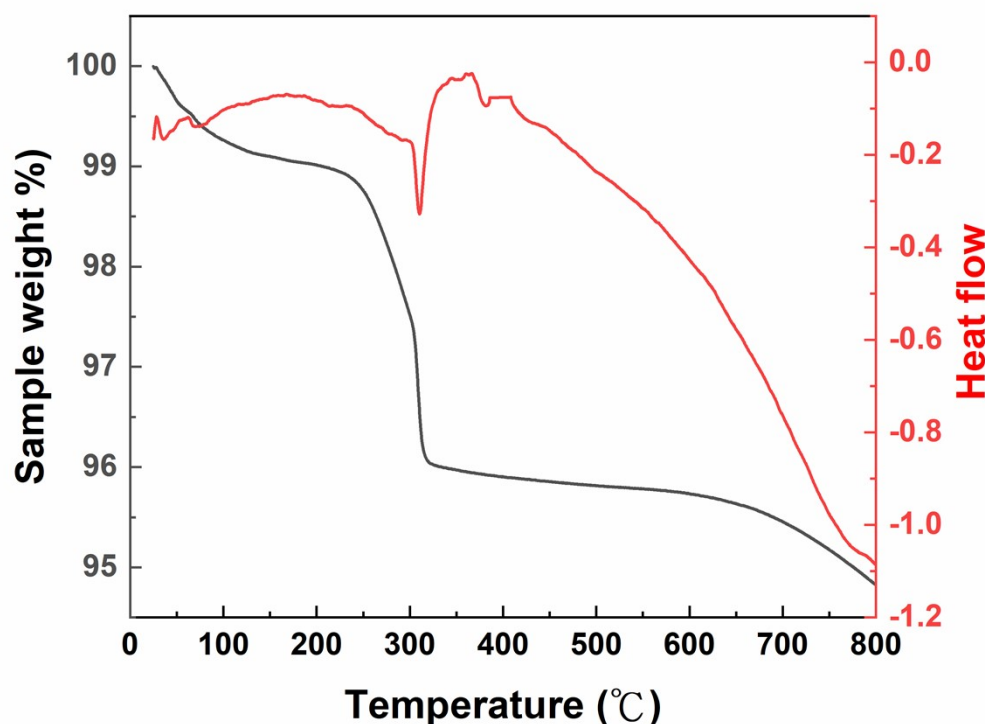
## Supplementary Information

### Incorporation of $\text{Al}^{3+}$ into turbostratic graphite: An efficient route toward improved thermal and electrical conductivity

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**Figure S1.** TGA/DSC profile recorded from TGS<sub>DES</sub> sample shows an endothermic peak at 300-320°C, corresponding to decomposition of ChCl and carbide formation.