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| **Convection Correlation** | **Restrictions** |
|  | Flat plate  Laminar Flow (Re <5e5)  Isothermal Plate |
|  | Liquid Metal  Laminar Flow  Isothermal plate |
|  | Turbulent Flow  Isothermal plate |
| A=0 for completely turbulent | Mixed boundary layer  Isothermal plate |
|  | Laminar  Unheated starting length |
|  | Turbulent  Unheated starting length |
|  | Isothermal plate  Unheated starting length  Laminar OR Turbulent |
|  | Laminar  Constant heat flux  Flat plate |
|  | Turbulent  Constant heat flux |
|  | Constant heat flux |