Equivalence of exchange - correlation functionals for the inhomogeneous electron gas and jellium at finite temperature[1] JAMES DUFTY, Department of Physics, University of Florida- — A common approximation or constraint in density functional theory is based on the equivalence of exchange - correlation functionals for uniform electrons and for jellium (uniform electrons with neutralizing background). It is shown here that this equivalence holds more generally for the inhomogeneous case as well. Related issues of the thermodynamic limit are noted.

James Dufty
Department of Physics, University of Florida-

Date submitted: 05 Nov 2016   Electronic form version 1.4