

What is claimed is:

1. A hydrocracking process comprising:
passing a hydrocarbon feed to a single stage hydrocracking unit where the feed is hydrocracked under hydrocracking conditions, and with the catalyst in the hydrocracking unit comprising a base comprised of alumina, an amorphous silica-alumina material, a USY zeolite and a beta zeolite, and with the catalyst comprising citric acid.
2. The process of claim 1, wherein the base comprises 0.1 to 40 wt. % alumina, 20 to 80 wt. % ASA, 0.5 to 60 wt. % USY zeolite, and 0.5 to 40 wt. % beta zeolite.
3. The process of claim 1, wherein the feed comprises a VGO.
4. The process of claim 1, wherein the yield of heavy distillate (boiling in the range of 530-700° F) is at least 16 wt. % at 55 wt. % conversion.
5. The process of claim 1, wherein the yield of distillates (boiling in the range of 380-700° F) is at least 32.5 wt. % at 55 wt. % conversion.
6. The process of claim 1, wherein the catalyst comprises the metals nickel (Ni) and tungsten (W) impregnated into the base.
7. The process of claim 6, wherein the catalyst comprises from 2 to 10 wt. % of nickel precursor and from 8 to 40 wt. % of tungsten precursor based on the bulk dry weight of the hydrocracking catalyst.
8. The process of claim 1, wherein the catalyst in the hydrocracking unit is prepared by:
 - (a) forming an extrudable mass containing the catalyst base,
 - (b) extruding the mass to form a shaped extrudate,
 - (c) calcining the mass to form a calcined extrudate,
 - (d) preparing an impregnation solution containing at least one metal salt, a solvent, and citric acid,
 - (e) contacting the shaped extrudate with the impregnation solution, and

(f) drying the impregnated extrudate at a temperature sufficient to remove the impregnation solution solvent, to form a dried impregnated extrudate.

9. The process of claim 8, wherein the impregnation solution comprises nickel carbonate.
10. A hydrocracking catalyst comprising a base of alumina, an amorphous silica-alumina, a USY zeolite, and a beta zeolite, with the base impregnated with citric acid and metals selected from Group 6 and Groups 8 through 10 of the Periodic Table.
11. The hydrocracking catalyst of claim 10, wherein the base comprises 5 to 40 wt. % alumina, 20 to 30 wt. % ASA, 1 to 50 wt. % USY zeolite, and 4 to 20 wt. % beta zeolite, based on the dry weight of the base.
12. The hydrocracking catalyst of claim 10, wherein the catalyst comprises the metals nickel (Ni) and tungsten (W) impregnated into the base.
13. The hydrocracking catalyst of claim 12, wherein the catalyst comprises from 2 to 10 wt. % of nickel precursor and from 8 to 40 wt. % of tungsten precursor based on the dry weight of the hydrocracking catalyst.