

ABSTRACT

PROCESS TO PREPARE PARAFFIN WAX

The present invention provides a process to prepare paraffins and waxes, the process at least comprising the following steps: (a) providing a Fischer-Tropsch product stream comprising paraffins having from 10 to 300 carbon atoms; (b) subjecting the Fischer-Tropsch product stream of step (a) to a hydrogenation step, thereby obtaining a hydrogenated Fischer-Tropsch product stream comprising 10 to 300 carbon atoms; (c) separating the hydrogenated Fischer-Tropsch product stream of step (b), thereby obtaining at least a fraction comprising 10 to 17 carbon atoms and a fraction comprising 18 to 300 carbon atoms; (d) separating the hydrogenated fraction comprising 18 to 300 carbon atoms of step (c), thereby obtaining one or more first light waxes having a congealing point in the range of 30 to 75°C and a second heavy wax having a congealing point in the range of 75 to 120°C; e) hydrofinishing one or more wax fractions having a congealing point in the range of 30 to 75°C of step (d) thereby obtaining one or more hydrofinished wax fractions having a congealing point in the range of 30 to 75°C.

(Figure 1)