ISOMERIZATION PROCESS USING METAL-MODIFIED SMALL CRYSTALLITE MTT MOLECULAR SIEVE

ABSTRACT

Dewaxing a hydrocarbon feed by isomerizing feed with catalyst comprising small crystallite molecular sieve having MTT framework, the catalyst containing at least one metal selected from the group consisting of Ca, Cr, Mg, La, Na, Pr, Sr, K and Nd, and at least one Group VIII metal. A dewaxing method to produce products boiling at 343°C (65O°F) or higher with low pour points (X-axis) and high viscosity indexes wherein the line fit to the chart of the pour points and the viscosity indexes has a slope of zero or less. A dewaxing process, comprising isomerization dewaxing feed with a viscosity at 100°C of 2.5 mm^2/s or greater ever a metal-modified molecular sieve (SSZ-32 and SSZ-32X) to produce products with low pour points (X-axis) and high viscosity indexes: the line fit to the chart of the pour points and the viscosity indexes has a slope of zero or less: and wherein the yield of products is high (figure 1).

(Figure 1)