

OLIGOMERIZATION CATALYST SYSTEM AND PROCESS FOR
OLIGOMERIZING OLEFINS

ABSTRACT

Among other things, this disclosure provides an olefin oligomerization system and process, the system comprising; a) a transition metal compound, b) a pyrrole compound having independently-selected C1 to C18 is organyl groups at the 2- and 5-positions, wherein at least one of the organyl group alpha-carbon atoms attached to the 2- and 5-positions of the pyrrole compound is a secondary carbon atoms; and c) a metal alkyl. For example, the 2,5-diethylpyrrole (2,5-DEP)-based catalyst systems can afford a productivity increases over unsubstituted pyrrole catalyst, systems, non-2,5-disubstituted catalyst systems, and 2,5-dimethylpyrrole (2,5-DMP) catalyst systems.

(Figure 1)