C L A I M S

1. A catalyst composition useful in the transalkylation and dealkylation of alkylaromatics, wherein the catalyst composition comprises:

(a) a carrier consisting essentially of: (i) mordenite type zeolite having a mean crystallite length parallel to the direction of the 12-ring channels of from 10 to 60 nm and a mesopore volume of at least 0.10 cc/gram in an amount in the range of from 20 to 90 wt%, based on total weight of carrier, (ii) ZSM-5 type zeolite having a silica-to-alumina molar ratio in the range of from 10 to 50 and present in an amount of from 10 to 70 wt%, based on total weight of carrier, wherein the ZSM-5 type zeolite has a number average particle size in the range of from 20 to 500 nm; and (iii) titania as a binder in an amount in the range of from 10 to 60 wt%, based on total weight of carrier; and

(b) of from 0.001 to 10 wt% of one or more catalytically active metals selected from the group consisting of tin, tungsten, vanadium, molybdenum, rhenium, nickel, cobalt, chromium, manganese, platinum and palladium.

2. The catalyst composition according to claim 1, in which the carrier comprises mordenite type zeolite in an amount in the range of from 30 to 70 wt%, based on total weight of carrier.

3. The catalyst composition according to claim 1, in which the carrier comprises ZSM-5 type zeolite in an amount of from 15 to 60 wt%, based on total weight of carrier.

4. The catalyst composition according to claim 1, wherein the ZSM-5 type zeolite has a silica to alumina

molar ratio in the range of from 15 to 40.

5. The catalyst composition according to claim 1, wherein the ZSM-5 type zeolite has a number average crystal size in the range of from 25 to 200 nm, as determined by X-ray diffraction.

6. The catalyst composition according to claim 1, wherein the catalytically active metals include platinum and tin.

7. A catalyst composition useful in the transalkylation and dealkylation of alkylaromatics, wherein the catalyst composition comprises:

a) a carrier consisting essentially of: (i) mordenite type zeolite having a mean crystallite length parallel to the direction of the 12-ring channels of from 10 to 60 nm and a mesopore volume of at least 0.10 cc/gram in an amount in the range of from 20 to 90 wt %, based on total weight of carrier, (ii) ZSM-5 type zeolite having a silica-to-alumina molar ratio in the range of from 10 to 50 and present in an amount of from 10 to 70 wt %, based on total weight of carrier, wherein the ZSM-5 type zeolite has a number average crystal size in the range of from 25 to 200 nm, as determined by X-ray diffraction; and (iii) titania as a binder in an amount in the range of from 10 to 60 wt %, based on total weight of carrier; and

(b) of from 0.001 to 10 wt % of one or more catalytically active metals selected from the group consisting of tin, tungsten, vanadium, molybdenum, rhenium, nickel, cobalt, chromium, manganese, platinum and palladium.

8. The catalyst composition according to claim 7, in which the carrier comprises mordenite type zeolite in an amount in the range of from 30 to 70 wt %, based on total weight of carrier.

9. The catalyst composition according to claim 7, in which the carrier comprises ZSM-5 type zeolite in an amount of from 15 to 60 wt %, based on total weight of carrier.

10. The catalyst composition according to claim 7, wherein the ZSM-5 type zeolite has a silica to alumina molar ratio in the range of from 15 to 40.

11. The catalyst composition according to claim 7, wherein the catalytically active metals include platinum and tin.