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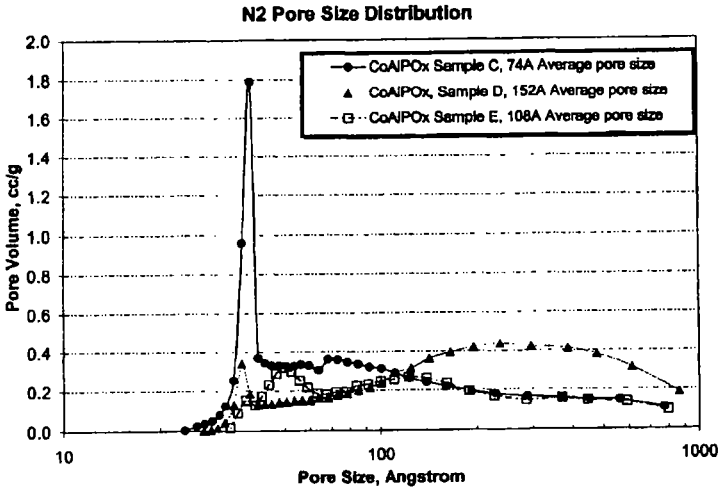
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(54) Title: A THERMALLY STABLE, HIGH SURFACE AREA, MODIFIED MESOPOROUS ALLUMINOPHOSPHATE



(57) Abstract: A mesoporous aluminophosphate material includes a solid aluminophosphate composition modified with at least one element selected from zirconium, cerium, lanthanum, manganese, cobalt, zinc, and vanadium. This mesoporous aluminophosphate material has a specific surface area of at least 100 m^2/g, an average pore size less than or equal to 100 Å, and a pore size distribution such that at least 50 % of the pores have a pore diameter less than 100 Å. The material can be used as a support for a catalytic cracking catalyst. Additionally, a method for making such a mesoporous aluminophosphate material is disclosed. The method, which preferably avoids use of organic reagents or solvents, includes providing an aqueous solution containing an inorganic phosphorus component; an inorganic aluminum containing component; and an inorganic modifying component containing at least one element selected from zirconium, cerium, lanthanum, manganese, cobalt, zinc, and vanadium. A solid mesoporous aluminophosphate material is formed in the solution by adjusting the pH of the solution to the range of 7 to 12 and is then recovered.

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