

HYDROPROCESSING CATALYSTABSTRACT

5 A catalytic composition comprises a metal
hydrogenation-dehydrogenation component supported on a
support material comprising an ultra-large pore
crystalline material of high surface area and porosity.
The crystalline material exhibits unusually large
sorption capacity demonstrated by its benzene
adsorption capacity of greater than about 15 grams
10 benzene/100 grams at 50 torr and 25°C, and has
uniformly sized pores with a maximum perpendicular
cross section of at least about 13 Å. In a preferred
form, the support material, which is preferably a
metallo-silicate such as an aluminosilicate, has the
15 pores in a hexagonal arrangement, giving rise to a
hexagonal electron diffraction pattern that can be
indexed with a d_{100} value greater than about 18 Å.
The catalytic composition is useful in petroleum
refining, e.g. hydrocracking of mineral oil feedstocks.

FIGURE 1 IS SUGGESTED FOR PUBLICATION.

REPLACED SHEETS		SG
☒	Description : paged ...2... to paged ...107...	
☒	Claim(s) : paged ...109... to paged ...115...	
☒	Drawing(s) : paged ...116... to paged ...121...	
☒	Abstract : paged ...122... to paged ...123...	
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