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Acidity of Silica-Alumina Catalysts By Amine Titration Using Hammett Indicators and FT-IR Study of Pyridine Adsorption

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amount of acid of the samples increased with the increase in SiO₂ content up to Siral 40 and then

decreased sharply in the case of Siral 80. Maximum amount of acidity was observed in the case of Siral 40 as 1.37mmole/g. No evidence was found for a band at 1540 cm⁻¹ on Pural indicating that there were no Bronsted sites on the surface strong enough to react with pyridine. As a result, we can say that the Lewis sites predominate in all the silica-aluminas.

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