

## Characterization of Vanadium Oxide Catalyst for Meta-Xylene Ammoxidation

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An Ammoxidation with meta-Xylene is evaluated using Multi Metal Vanadium Oxide Catalysts prepared by various methods. With a temperature range from 573 to 693K in a Packed-Bed reactor, mixed gases of Oxygen, ammonia and m-xylene were injected to the reactor in certain ratio. According to this work, functions of different inorganic oxides used in the Vanadium Oxide Catalyst are studied. The characteristics of Vanadium Oxide Catalyst were analyzed by X-Ray Diffraction(XRD), Scanning Emission Microscopy(SEM) and the Performance of the Catalyst was measured by Gas Chromatography.