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Influence of additives on the properties of ceramics from electrofusion corundum

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Porous materials are commonly used as a catalyst that supports the processes of oxidation, hydrogenation and dehydrogenation at high temperature, corrosion in feed processing i.e., corrosive environments at endothermic and exothermic reactions. Particularly for this purpose, various types of corundum materials with high chemical inertness is needed. Porosity materials due to the high porosity and the peculiar structure have specific properties dramatically different from those of the corresponding chemical composition of dense materials. A highly porous cellular material of alumina carriers for catalysts was obtained. The filler used to be electro corundum, as reinforcing filler, forming on fire a bundle used porcelain. The samples were prepared by impregnating the ceramic slurry polyurethane foam (PUF), followed by drying and calcining at 1450°C. The porosity after firing was 60-65% and the compressive strength was 3.5 MPa.

Biography

Zaw Ye Maw Oo has completed his PhD from D Mendeleev University of Chemical Technology of Russia with a Government Scholarship. Currently, he is doing his Post-doctoral studies from the university. He has published more than 5 papers in reputed journals.

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