Comparison of Cobalt based catalysts supported on MWCNT and SBA-15 supports for Fischer-Tropsch Synthesis by using autoclave type reactor

Authors: Yekabar, A (Yekabar, Ashrahma); Mibi, MG (Mibi, M. G.); Sire, PL (Sire, P. Leo); Shaharun, MS (Shaharun, Muznah Binti); Abd Hamid, BB (Abd Hamid, B. B.); Khan, V (Khan, Vladimir)

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Abstract: Cobalt based catalysts were prepared via incipient wetness impregnation method. It was characterized by Scanning Electron Microscopy (SEM), X-ray Diffraction (XRD), Transmission Electron Microscope (TEM), Temperature Programmed Reduction and H2 Dosage. A 260 ml capacity autoclave reactor was implemented to test the performance of the catalyst. It was observed that the performance of 40 wt% Co/SBA-15 was higher that other catalysts in terms of production of longer chain paraffins.

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Reprint Address: Yekabar, A (reprint author), Unik Teluk Belitong, Tampin 31750, Pahang, Darul Ridzuan, Malaysia.

Addresses: