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# Synthesis and Characterization of Nickel Oxide Nano Particles

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**Abstract:** Nano particles are gaining importance in recent industrial applications. These nano particles are prepared by two major approaches top down and bottom up. Sol-gel method is one of the important method to prepare nano particles bottom up approach. In the present work, nano sized Nickel Oxide(NiO) powder was synthesized via sol-gel method using Nickel Oxide, as the precursors. The surface area and shape of the particles were characterized by a Scanning Electron Microscope (SEM).The characterized particles are dispersed in water to prepare nano fluid and the viscosity of this fluid is estimated by redwood viscometer; whereas thermal conductivity and specific heat are estimated using available models.

**Key Words:** Nano-particles; Nickel Oxide; Sol-Gel Method; Nano-fluid.

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