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The Effect of Metal Loading on Structural Characteristics and Low Temperature CO Oxidation Activity of Coprecipitated Co/Al<sub>2</sub>O<sub>3</sub>

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**Abstract:** The effect of metal loading on structural properties and CO oxidation activity of coprecipitated Co/Al<sub>2</sub>O<sub>3</sub> catalysts was investigated. The results indicated the participation of cobalt in the Co-Al skeleton for all coprecipitated samples. Environmental-SEM-EDXS studies showed that at loadings higher than ca. 15 wt.-%, cobalt formed layer-by-layer clusters on the surface; 16.8 wt.-% Co/Al<sub>2</sub>O<sub>3</sub> displayed the highest activity and stability in CO oxidation.

**Key Words:** Catalysis, Catalyst activation, Environment, Precipitation, CO oxidation, cobalt-alumina catalysts.

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