

[Name of Document] ABSTRACT

A high-concentration silica slurry characterized in that the ratio (DL/DT) of average particle diameter (DL) measured from laser diffraction particle size distribution to average particle diameter (DT) measured from TEM micrograph is 1.3 or below and that silica powder of 0.08 to 0.8  $\mu\text{m}$  average primary particle diameter is dispersed in a solvent at a silica concentration of 50 wt.% or higher so as to realize a viscosity of 1000 mPa $\cdot$ s or below. Preferably, a high-concentration silica slurry of 70 to 80 wt.% silica concentration containing silica powder wherein the respective concentration of sodium and potassium impurities are both 1.0 ppm or below, the aluminum content 1.0 ppm or below, and the respective contents of sulfur, nickel, chromium and iron all 0.5 ppm or below, the high-concentration silica slurry having a viscosity of 800 mPa $\cdot$ s or below upon slurry formation.