

Abstract**Aqueous Dispersions, Process for their Production, and
their Use**

- 5 The invention provides an aqueous dispersion containing a cerium oxide-doped, pyrogenically produced silicon dioxide, wherein the cerium oxide is introduced through an aerosol of a cerium salt solution or suspension and the average particle size in the dispersion is less than 100 nm. The
- 10 dispersion is produced by dispersing the cerium oxide-doped, pyrogenically produced silicon dioxide in aqueous solution by means of a high energy input. The aqueous dispersion can be used for chemical-mechanical polishing.