

Title (en)

AMMONIA TREATMENT OF SILICA POWDER DURING THE PRODUCTION OF SILICA GLASS

Title (de)

AMMONIAKBEHANDLUNG VON SILIZIUMDIOXIDPULVER BEI DER HERSTELLUNG VON QUARZGLAS

Title (fr)

TRAITEMENT À L'AMMONIAC D'UNE POUDRE DE DIOXYDE DE SILICIUM LORS DE LA FABRICATION DE VERRE DE SILICE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2017103171A1] The invention relates to a method for producing a silica glass article, involving method steps i.) providing a silica granulate, ii.) forming a glass melt from the silica granulate, and iii.) forming a silica glass article from at least some of the glass melt, step i.) consisting of steps I. producing a silica powder using at least two particles made from a silicon-chlorine compound, II. bringing the silica powder into contact with ammonia so as to obtain a treated silica powder, and III. granulating the treated silica powder so as to obtain a silica granulate, the chlorine content of the silica powder being higher than the chlorine content of the silica granulate. The invention further relates to a silica glass article that can be obtained by said method. The invention also relates to a method for producing a silica granulate. The invention finally relates to an optical waveguide, an illuminant and a molded article, each of which can be obtained by further processing the silica glass article.

IPC 8 full level

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