

Title (en)
PRODUCTION OF SOLAR-GRADE SILICON FROM SILICON DIOXIDE

Title (de)
HERSTELLUNG VON SOLAR-SILICIUM AUS SILICIUMDIOXID

Title (fr)
PRODUCTION DE SILICIUM SOLAIRE À PARTIR D'OXYDE DE SILICIUM

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Application
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Abstract (en)
[origin: WO2010037709A2] The invention relates to a complete method for producing pure silicon that is suitable for use as solar-grade silicon, comprising the reduction of a purified silicon oxide using one or more pure carbon sources, the purified silicon oxide, which was purified as silicon oxide dissolved in an aqueous phase, having a content of other polyvalent metals or metal oxides, in relation to the silicon oxide, of less than or equal to 300 ppm, preferably less than 100 ppm, especially preferably less than 50 ppm and according to the invention less than 10 ppm of the other metals and being obtained advantageously by gel formation in alkaline conditions. The invention also relates to a formulation containing an activator and to the use of purified silicon oxide together with an activator for producing silicon.

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