

Title (en)

METHOD FOR PREPARING A SILICA SUSPENSION IN AN OPTIONALLY CROSSLINKABLE SILICONE MATRIX

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER SILICIUMOXIDSUSPENSION IN EINER GEGEBENENFALLS VERNETZBAREN SILIKONMATRIX

Title (fr)

PROCEDE DE PREPARATION D'UNE SUSPENSION DE SILICE DANS UNE MATRICE SILICONE EVENTUELLEMENT RETICULABLE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0244259A1] The invention concerns the preparation of a precipitate silica suspension in a silicone oil, said suspension being used for producing crosslinkable products by polyaddition or by polycondensation (RTV elastomers). The problem the invention aims at solving is the search for a compromise between the cost and the rheology and mechanical properties of the final RTV products. The invention provides a solution by providing a method for preparing a precipitate silica suspension treated with hexamethyldisilazane (HMDZ) in a crosslinkable silicone oil. The introduction of HMDZ is carried out in at least two HMDZ fractions. The first fraction corresponds to a proportion not higher than 15 % by dry weight relative to the total HMDZ amount and is first contacted with the precipitate silica and water. The invention also concerns the method for obtaining a silicone elastomer composition from said suspension, and the resulting composition.

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