

Title (en)  
SILICONE COMPOSITION WHICH IS CROSS-LINKABLE BY DEHYDROGENIZATION WITH CONDENSATION IN THE PRESENCE OF A METALLIC CATALYST

Title (de)  
ISILIKONHÄRTBARE ZUSAMMENSETZUNG DURCH DEHYDROGENIERUNG-KONDENSATION UND ANWESENHEIT EINES METALLKATALYSATOREN

Title (fr)  
COMPOSITION SILICONE RETICULABLE PAR DESHYDROGENOCONDENSATION EN PRESENCE D'UN CATALYSEUR METALLIQUE

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Application  
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Abstract (en)  
[origin: WO03087209A1] The invention relates to a silicone composition  $\text{=SiH/=SiOH}$  which can be polymerized/cross-linked by dehydrogenization with condensation in the presence of a catalyst which is suitably selected in order to complete one of the specifications announced hereafter: kinetics, concentration/efficiency ratio of the catalyst, cost, reduction of the catalyst activation temperature (room temperature), control of the gaseous hydrogen discharge and the quality of the polymerized product and the cross-linked network, in addition to limitation of secondary reactions. Said composition comprises: A) at least one POS  $\text{=SiH}$ ; B) at least one POS  $\text{=SiOH}$ ; C) at least one metallic catalyst selected from the group of organometallic complexes comprising at least one of the following metals: Ir, Ru, Mn.; D) optionally one cross-linking inhibiting agent; E) optionally at least one POS resin; F) optionally at least one charge. The invention also relates to the catalyst C and methods involving the cross-linking of silicon by dehydrogenization with condensation (anti-cling coating on paper).

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