

Title (en)
RUBBER TYRE COMPOSITION COMPRISING AN AZO-SILANE COUPLING AGENT

Title (de)
GUMMIREIFENZUSAMMENSETZUNG MIT EINEM AZO-SILAN-KUPPLER

Title (fr)
COMPOSITION DE CAOUTCHOUC POUR PNEUMATIQUE COMPORTANT UN AGENT DE COUPLAGE AZOSILANE

Publication
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Application
EP 12710754 A 20120328

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Abstract (en)
[origin: WO2012130884A1] The invention relates to a rubber composition for tyres, comprising at least a diene elastomer, an inorganic reinforcing filler, and a coupling agent linking the inorganic filler and the diene elastomer. The composition is characterised in that the coupling agent is an azo-silane compound having formula (I) $(G1)_3\text{-a}(G2)\text{aSi-Z-NH-C(O)-N=N-C(O)-NH-Z-Si}(G1)_3\text{-a}(G2)\text{a}$, wherein: - G1, which may be identical or different, each represent a monovalent hydrocarbon group selected from among optionally substituted, linear or branched alkyls having between 1 and 18 carbon atoms, cycloalkyls or aryls, optionally substituted, having between 5 and 18 carbon atoms; - G2, which may be identical or different, each represent a hydroxyl group or a monovalent group selected from among optionally substituted, linear or branched alkoxy groups having between 1 and 18 carbon atoms, cycloalkoxy groups, optionally substituted, having between 5 and 18 carbon atoms; - Z represents a divalent linking group comprising between 1 and 18 carbons; and - a is equal to 1, 2 or 3.

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