

Title (en)

MODIFIED SILICAS, PROCESS FOR PREPARATION THEREOF AND USE THEREOF

Title (de)

MODIFIZIERTE KIESELSÄUREN, VERFAHREN ZUR DEREN HERSTELLUNG UND DEREN VERWENDUNG

Title (fr)

ACIDES SILICIQUES MODIFIÉS, PROCÉDÉ POUR LES FABRIQUER ET LEUR UTILISATION

Publication

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Application

EP 21746649 A 20210705

Priority

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- EP 2021068488 W 20210705

Abstract (en)

[origin: CA3184972A1] The invention provides modified silicas having the following physicochemical parameters: CTABmod < 200 m /g, BETMP 50-500 m /g, CTABmod - BETMP < 0 m /g, carbon content > 0.5% by weight, modmod from CPS particle size determination > 50 nm, d75mod from CPS particle size determination 20-150 nm, Rmin from Hg pore size determination, pressurized < 10 nm, sulfur content ? 1.50% by weight. The modified silicas are prepared by mixing a silica with at least one additive selected from the group of aqueous sulfur-containing alkoxysilane emulsion, polysiloxane, mixture of sulfur-containing alkoxysilane and polysiloxane, or mixture of sulfur-containing alkoxysilane and anionic polyether in the intake of the drying unit, and then supplying the mixture to the drying unit. The modified silicas are used for production of pneumatic tyres, cable sheaths, hoses, drive belts, conveyor belts, roll coverings, tyres, footwear soles, gasket elements and damping elements.

IPC 8 full level

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C08L 9/06 + C08L 9/00 + C08K 9/08

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