

Title (en)  
PHENOL-FORMALDEHYDE RESINS, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF AS BINDERS

Title (de)  
PHENOL-FORMALDEHYD-HARZE, VERFAHREN ZU DEREN HERSTELLUNG SOWIE DEREN VERWENDUNG ALS BINDEMITTEL

Title (fr)  
RÉSINES PHÉNOL-FORMALDÉHYDE, LEUR PROCÉDÉ DE FABRICATION ET LEUR UTILISATION COMME LIANT

Publication  
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Application  
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Abstract (en)  
[origin: WO2008086555A1] The invention relates to phenol-formaldehyde resins, which can be obtained by the alkalinely catalyzed condensation of phenol and formaldehyde in the presence of at least one salt of inorganic acids, and neutralization following the condensation by means of an inorganic or organic acid. The production takes place by adding at least one compound of the formula  $R^{1}(CH_2)_nR^2$  (1), wherein  $R^1$ ,  $R^2$  independently from each other are -C(O)R, -COOR, -CN or -NO<sub>2</sub>, wherein R is H or CH<sub>3</sub> and n has the value of 1 or 2. Furthermore, the invention particularly relates to the production of said resins and the use thereof as binders for insulating products on mineral fiber basis.

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