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ESTIMATION AND REGULATION OF STRENGTHENING PROPERTIES OF CROSS-LINKED POLYMERIC COMPOSITIONS

Abstract

In the present paper results of experimental researches of gel structures on the basis of cross-linking polymer compositions are described. The opportunity of their regulation tensile strength properties by the dosed out additives of various chemical compounds, such as bichromates of some metals, by increase of the content of dry substances in structure of cross-linked structures, decrease of pH, etc. is shown.

Experimental researches of regularity of formation of geled structures and influence on gelation time of endurance of system, temperature conditions, superfluous pressure and presence of corrosive environments have been carried out.

Influence of magnetoactive additives on strengthening properties of compositions and magnetic memory of structures are studied. It is shown, that in time of a relaxation concerning loading time it is possible to adjust strengthening characteristics of compositions applied in oil recovery processes.