

عنوان مقاله:

The Comparison of the effect of Gilsonite and Forta fibers on the mechanical properties of Hot Mix Asphalt

محل انتشار:

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خلاصه مقاله:

Due to the increasing traffic volume and the influence of atmospheric factors, the asphalt mixtures are always subject to damage such as cracking, deformation and reduced durability. This will ultimately reduce the life of the asphalt mixtures. Modification of the technical and mechanical properties of bitumen and asphalt mixtures to improve the performance of these mixtures has been the focus of many researchers in recent decades. In this study, to investigate the mechanical properties of asphalt mixtures, Gilsonite bitumen and FORTA fibers were used and the specimens were subjected to Marshall Stability Test. The results indicated that the use of Gilsonite had a greater effect on the strength of the asphalt mixture than the FORTA fibers. Also, Gilsonite reduces flow and FORTA fiber increase flow of asphalt mixtures.

کلمات کلیدی:

FORTA Fiber, Gilsonite, Hot Mixed Asphalt, Marshall Stability

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