

Effect of using engine oil waste on the characteristics of asphalt binder.

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Abstract

Recycled asphalt mixtures (RAM), which are obtained by mixing reclaimed asphalt pavement (RAP), virgin bitumen and mineral additives, grant a range of advantages, consisting of useful resource recycling, rate reductions in costs, and decreased terrible environmental impacts. However, more than one organizations have expressed issues about the utilization ratio of RAP. The principle feature of this learn is to describe and evaluate materials of modified asphalt binder mixes by the use of Fourier Transform Infrared Spectroscopy (FTIR).

This study aims to analyze the effect of waste fuel oil WFO on the characteristics of asphalt binder using Fourier transform infrared FTIR spectroscopy. The findings of the treatise indicate that the good validity will add a lot of waste oil. This also offered a method for developing oils to create new rejuvenating agent to achieve complex synergism etc. In addition, the waste cyclic consumption and protection of the environment would be realized.