

#### عنوان مقاله:

Mechanical Properties of Concrete Containing Tire Rubber Particles toward Constant Development

### محل انتشار:

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#### خلاصه مقاله:

With many years of construction and application of common concrete, researchers have always been searching for a better composition. One of the notable ideas for achieving such a composition is using recycled materials. One of the materials which is suitable for environment and constant development is damaged tires .For studying mechanical properties of concrete containing tire particles, a series of experimental studies undertaken. In this study, a mix design with YA-day compressive strength of Fo MPa was considered. Then by replacing No percent (by weight) of sand with tire particles (without changing other parameters), the required test was done for determination of compressive and tensile strength of concrete samples. By application of microsilica, its effect on mechanical properties of concrete samples were studied. The obtained results from tests are demonstrated by graphs and tables. By considering the environment in this research, it has been dealt with mechanical properties of concrete containing rubber particeles toward constant .development

# كلمات كليدي:

Concrete, mix design, Compressive strength, Tension strength, Tire rubber particles, Microsilica

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