

Mechanical properties of fly ash concrete

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Using Fly ash in concrete has been the subject of many studies for years. A comprehensive literature review on mechanical properties of fly ash concrete including compressive strength, splitting tensile strength, modulus of elasticity and flexural strength is presented. Furthermore, databases are created for mechanical properties of fly ash concrete in order to lead to changes or acceptance in design codes and standards provisions. Additionally, Mechanical properties of fly ash concrete were compared with the American, European, Australian, Japanese and Canadian standards provisions. Results of this study show that existing code provisions for conventional concrete mechanical properties are not conservative for fly ash concrete.