

# THE EFFECT OF USING SOME CEMENT WITH KAOLIN ON NORMAL CONCRETE AT QUALITY K-350

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## ***ABSTRACT***

*Concrete quality according to plan requirements is difficult to achieve, so many additives are used to improve the quality of concrete, one of the most popular added ingredients today is kaolin. In this research, kaolin is expected to be able to increase the compressive strength and split tensile strength. Aims to determine the material properties of the mechanical properties of concrete which are added or subtracted by the addition or reduction of kaolin.*

*The method used in this test is to make a concrete mix using SNI 03-2834-2000 with kaolin as an additive or partial purification of normal cement at 7.5%, 10%, 12.5% and 15%. Concrete cured for 3 days, 28 days, and 60 days were then tested to obtain compressive strength and split tensile strength.*

*From the test results, it was found that the effect of using kaolin on the quality of concrete could experience a decrease in the compressive strength of concrete. In the variation added kaolin 7.5%. has perfect compressive strength compared to the others, the split tensile strength can reduce the split tensile strength and slump value that the addition of kaolin to Normal concrete can increase the viscosity of the mixed mix.*

**Keywords :** *Concrete Compressive Strength, Split Tensile Strength, kaolin, variations of kaolin.*