

**Pengaruh Penambahan *Grinding Aid* (IH G4, IH G2 Dan Estop)
Terhadap Sifat Fisika Dan Sifat Kimia Semen Tipe I**

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ABSTRACT

The Effect of Grinding Aid (IH G4, IH G2 Dan Estop) Intercalation Toward The Physical Properties and The Chemical Properties of Cement Type I

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The manufacturing process of cement and its quality is depend on of process and the use of additives. Grinding aid is one of additives compound that added into the clinker before grinding process in order to increase the fineness of cement to become faster and optimum. Based on this work, the chemical composition of cement type I which has with additives the grinding aid not provide a much more distinguish change comparing without grinding aid additives. Only fineness of cement that increases, the rest on the sieve test was decrease. The cement which has the value that already known was mixed the sands and water to form a dough and its mould. The mixture was the analyzed to determine the compressive strength. The increasing of fineness value cement due to the decreasing of the rest on the sievie test and the compressive strength value was observed. The compressive strength value of the cement type I which was with additive of grinding aid was increases and agreed by the requirements the cement specification of Singapore Standart.

Keyword : *grinding aid*, fineness, compressive strength, cement type I, Singapore Standart.