

"THE ASSESSMENT OF AGGREGATE  
DURABILITY"

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PROJECT REPORT

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SUMMARY

The scope of this project is to give general, information about aggregates giving emphasis to their relative density and water absorption values, Impact and crushing value, ten per cent fines value, resistance to Abrasion by use of the Los Angeles machine and soundness determination.

In order to satisfy the objectives of the project this was divided into seven chapters. In the first chapter, the importance of the correct aggregate testing is given. Also the importance of correct sampling is emphasised.

In the second chapter the identification of the importance of aggregate durability is discussed. Also the problem of aggregates durability is strongly emphasised.

In the third chapter the identification of the factors affecting rock durability in both weathering processes on the rock and degradation processes on crushed rock aggregate in engineering time, are discussed.

In the fourth chapter description of the engineering tests used for the Assessment of rock/Aggregate durability, are emphasised.

In the fifth chapter informations are given about diabase and basal group. Also informations are given about Gedogiral Factors influencing the mechanical properties of the aggregate.

About the diabase quarries in Cyprus are also discussed.

The sixth chapter is experimental. In this chapter the results and the correlation between engineering tests (graphs) of the experiments done are given.

Finally in the seventh chapter conclusions and fotografhs are shown.

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