ABSTRACT

VARIATIONS IN THE PERCENTAGE OF FLAKY AGGREGATES AS COARSE AGGREGATE FOR ASPHALT CONCRETE LAYER CHARACTERISTICS (LASTON)

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Flaky aggregates in general are also produced by the stone crusher, so that the field can not be avoided use of the aggregate form. Due to such things then do research on the influence of flaky granules highway flexible pavements.

This study was conducted to determine the effect of variations in the percentage of flaky aggregates as coarse aggregate for asphalt concrete layer characteristics (LASTON) with four different variations, ranging from flaky aggregate group 0%, 10%, 30% and 50%.

Values obtained from the analysis of the variation in aggregate stability largest flaky 0% asphalt content of 5.0% which is 1818.80 kg, the largest flow value at a flaky 10% variation in aggregate asphalt content of 6.5% which is 5.77 mm, the value of the variation Marshall quotients largest aggregate flaky 0% asphalt content of 5.0% which is 579.14 kg / mm, the value of the variation in aggregate biggest VIM flaky 30% asphalt content of 4.5% which is 14.00%, the value of the variation in aggregate biggest VMA flaky 30% asphalt content of 4.5% which is 22.89%, the largest value of VFA the aggregate variation 0% bitumen content of 6.5% which is 80.09%. The values of parameter marshall looks flaky percentage based on aggregate 0%, 10%, 30% and 50% fit to use contained in the variation of 0% and 10%. So the value of KAO (Optimum Asphalt Content) obtained only at the aggregate variation flaky 0% and 10% with a value of 6.14% and 6.23%.

Keywords: Laston, Percentage of Flaky Aggregate Variation, AC-WC, Marshall Parameter