



How to read results of mechanical-technological tests of aggregates?

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Tests of technological-mechanical performance of crushed stone (e.g. Los Angeles Attrition, Nordic Abrasion, Aggregate Impact Value, etc.) are simply reported as a weight percentage loss from the original fraction. However, this approach does not allow for reliable evaluation of the degradation of original sizing due to the fact that partial reduction of crushed stone fragments close to upper limit in the tested size fraction can be partially reduced in size but still can remain in the tested fraction. To overcome this difficulty, we propose alternative evaluation of size reduction by taking into account size decrease for individual sieves in the whole range of tested fraction. Integration of the area difference between original and final cumulative size distribution seems to be more reliable than previously reported weight percentage loss.