

CE 3700 Final Exam Study Guide

Lecture 7

Mineral Aggregate for HMA

Any hard or inert minerals used for mixing in graduated particles or fragments

- Sand
- Gravel (crushed stone)
- Slag
- Rock dust (powder)

*93-95% by weight or 75-85% by volume

*Responsible for load supporting capacity of pavements

*Pavement performance is influenced directly by the aggregate used

Aggregate classification by size

Course aggregate – retained on No. 4 Sieve

Fine aggregate – passes through the No. 4 Sieve

Mineral filler – at least 70% pass the No. 200 Sieve

Types of Aggregates desired for HMA mixtures

- Cubical aggregate
- Rounded aggregate

*The shape of the aggregate affects the shearing behavior of the aggregate under load

Properties considered in the evaluation of aggregate for HMA mixtures

- Internal angle of friction
 - Round: Low angle of friction
 - Cubical: High angle of friction
- Particle shape
 - Flat, elongated
- Cleanliness
 - Clean, dirty
- Toughness
 - Resistance to abrasion
- Durability
- Absorption

Consensus/Source Aggregate Properties

Consensus

- Course aggregate angularity (CAA)
 - Based on fractured faces, the fractured surface must be larger than 25% of the aspect ratio
- Fine aggregate angularity (FAA)
 - Based on the air voids in a loose sample, the more angular the aggregate the higher the void content

Design Guide To As 3700

**United States. Congress. House.
Committee on Appropriations**



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Industrial Furnaces, Ovens and Heat Treating Equipment United States. Defense Logistics Agency, 1983 Manual Training Magazine Charles Alpheus Bennett, William Thomas Bawden, 1924 **Symbiosis of Human and Artifact: Human and social aspects of human-computer interaction** Yūichirō Anzai, Katsuhiko Ogawa, Hirohiko Mori, 1995 Presented here are papers selected from those submitted to the Sixth International Conference on Human Computer Interaction HCI International 95 held in Tokyo July 1995 A total of 1 298 individuals from 36 countries submitted their work for presentation at this first major international meeting on human computer interaction held in Asia Volume A covers the latest advances in the research of future computing and system design as well as their relevant application in the wide field of human computer interaction Volume B contains selected papers in the areas of ergonomics and social aspects of computer systems

Personal Publishing , 1988 The Complete Guide to Stereo Equipment Consumer Guide Editors, 1979 **Energy Research Abstracts** , 1981 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes *Military Construction Appropriations for 1998* U. S. Congress, House Committee on Appropriations, United States. Congress. House. Committee on Appropriations. Subcommittee on Military Construction Appropriations, 1997 Military Construction Appropriations for 1998: Justification of the budget estimates, Air Force United States. Congress. House. Committee on Appropriations, 1997 **Electronic Design** , 1994 *Military Construction Appropriations for 1993: Justification of the budget estimates, Air Force* United States. Congress. House. Committee on Appropriations. Subcommittee on Military Construction Appropriations, 1992

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