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## Utelite Urban Tree Structural Soil Properties

### Source:

Utelite Corporation, PO Box 387, Coalville, UT 84017  
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### Product:

Structural Soil – “Coarse” Expanded Shale Aggregate amended with 20% clay loam topsoil

### Application:

Alternative planting media for urban tree establishment capable of supporting pavement loads.

### Structural Soil Blend Physical Properties:

- Loose Bulk Density (cu. ft.) 55 – 70 lbs
- Compacted In-Place Density (cu. ft.) <90 lbs
- Saturated Hydraulic Conductivity (in/hr) minimum: 10
- Compaction: 90 - 95% (modified proctor)

### Components:

Utelite Coarse Expanded Shale Aggregate

ASTM C29 Unit Dry Weight Loose (cu. ft.) 47 – 57  
Gradation: 3/4” - #4 size

Topsoil

Loam to Clay Loam Texture, pH 7 – 9, OM >1, SAR <10, EC <5, N, P, K, FE in acceptable ranges

### Installation:

Subgrade should be properly prepared and compacted to 95% of its maximum dry density. Structural soil is placed in horizontal lifts not exceeding 12” of compacted depth. Use a minimum of two passes, of not less than 10 seconds per pass, before moving the vibratory plate compactor to the next adjacent location. Additional passes may be required and should be determined in the field by the engineer. Continue placing and compacting lifts until the specified depths are reached.