

ENGLISH VERSION

713-15 COMPOST

SCOPE. This specification covers the material requirements for organic material used in conjunction with amending or manufacturing topsoil and for erosion control products.

MATERIAL REQUIREMENTS. Compost shall be the material resulting from the biological and biochemical decomposition of biosolids, source-separated organic waste, yard waste, leaves or agricultural waste. These composts shall have been commercially or municipally produced. Compost and composting facilities shall be in compliance with all federal laws (40 CFR Part 503 and others), Article 10 of the Agriculture and Markets Law and 6 NYCRR Part 360.

Biosolids, including mixed solid waste, septage and other sludges, are the solid or semi-solid organic material generated by a wastewater treatment plant. Source-separated organic waste (SSOW) is readily decomposable material that is separated at the point of waste generation, and may include, but not be limited to, food scraps, food processing residues, soiled and/or unrecyclable paper, and other compostable materials. Yard waste includes grass clippings, leaves and other similar readily-compostable organic material.

Compost shall be reasonably free of sticks, stones, refuse, materials deleterious to soil structure, or any material toxic or detrimental to plant germination and growth. Compost containing foreign material may be rejected on the basis of a visual examination.

Composted biosolids shall have a certificate from a laboratory approved by the NYSDOH verifying compliance with all applicable laws, rules, and regulations. Only facilities permitted to compost biosolids under 6 NYCRR Part 360 will be allowed to furnish biosolid compost. The certification shall be supplied by the Contractor prior to the delivery of any composted biosolids, topsoil containing composted biosolids, or other such regulated material to the contract site.

Type A. Compost for Turf Establishment, Sodding, and Planting. Compost for Erosion/Sediment Control Filter Berms shall have a minimum organic-matter content of 30% (dry-weight basis) as determined by loss on ignition.

Product shall be loose and friable, not dusty, and have a moisture content of 35% - 60%, (wet weight basis).

Particle size shall be < 1/2 inch, (100% passing).

Soluble salts concentration shall be < 4.0 mmhos/cm (ds/m), maximum.

Compost shall be stable to very stable.

pH shall be between 6.0-8.5.

Type B. Compost for Erosion/Sediment Control Filter Berms. Compost for Erosion/Sediment Control Filter Berms shall meet the requirements of AASHTO Designation MP 9-03 and as follows:

Minimum organic matter content 25% - 65% (dry-weight basis) surfaces to be vegetated; 25% - 100% (dry weight basis) surfaces to be left unvegetated.

Gradation:	
Sieve Size	Percent Passing by Weight
3 inch	100
1 inch	90 to 100
3/4 inch	70 to 100
1/4 inch	30 to 75
Maximum particle length; 6 inch	

Soluble salt concentration shall be 5 mmhos/cm; (ds/m) maximum.

Compost shall be stable to very stable
 pH shall be between 5.0 - 8.5.

Type C. Compost for Erosion/Sediment Control Compost Blankets (Mulch for Seeded Areas). Compost for Erosion/Sediment Control Compost Blankets, (mulch for seeded areas), shall meet the requirements of AASHTO Designation MP 10-03 and as follows:

For surfaces to be vegetated, minimum organic matter content 25% - 65% (dry weight basis); for surfaces to be left unvegetated 25% - 100% (dry-weight basis).

Gradation:	
Sieve Size	Percent Passing by Weight
3 inch	100
1 inch	90 to 100
3/4 inch	65 to 100
1/4 inch	0 to 75
Maximum particle length; 6 inch	

Soluble salt concentration shall be 5 mmhos/cm; (ds/m) maximum.
 Compost shall be stable to very stable.
 pH shall be between 5.0 - 8.5.

Type D. Leaf Compost. The material shall consist exclusively of deciduous leaf material. Compost material that contains food waste, sewage waste, or other waste material is unacceptable. The leaf compost shall be mature (actively composted for 6 months minimum, and temperature slightly above air temperature) and humic (organic material is no longer rapidly degrading). Mature compost material shall be a dark, friable, partially decomposed substance that has an earthy odor. Visible fibers should be short and dark with no discernable particles of leaf material. Because not all items decompose at the same rate screening may be necessary to remove larger partially decomposed material and/or undecomposed material.

- Organic Content – 25% to 100% by dry weight
- Natural Inert Material - <5% by dry weight of woody or green yard debris material.
- Man Made Inert Material - <1% by dry weight of man made material such as glass or plastic.
- Bulk Density – 636 to 812 kg/m³
- Moisture Content – 30% to 60% by total weight

Gradation:	
Sieve Size	Percent Passing by Weight
1/2 inch	100
No 16	0
Maximum particle length; 6 inch	

Type E. Well Rotted Manure. The material shall consist of animal excreta with litter material. The well rotted manure shall be mature (aged a minimum of one year), dark brown or black in color, crumbly in texture, and shall not have an objectionable odor. The material's moisture content shall be such that no visible free water or dust is produced when handling it. It shall contain no visible admixture of refuse or other physical contaminants or any material toxic to plant growth.

BASIS OF ACCEPTANCE. Compost will be accepted on the basis of a Producer's label or a certificate of analysis by a laboratory certified by a nationally recognized entity indicating compliance with the material requirements and visual inspection.

Composted biosolids will be accepted on the basis of a material certification by a NYSDOH approved laboratory that the product conforms to this specification and all applicable regulations.

Compost supplied or manufactured by participants in the US Composting Council's Seal of Testing Approval Program will be accepted on the basis of the Program's Compost Technical Data Sheets. The data shall represent a minimum of one year of testing results and the most recent test shall have been conducted with ninety days of material acceptance.

Compost supplied or manufactured by suppliers that do not participate in the US Composting Council Seal of Testing Approval Program will be accepted on the basis of a material certification, by a laboratory certified by a nationally recognized entity, that the product conforms to this specification.

The Department reserves the right to sample and test the materials subsequent to delivery.

METRIC VERSION

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SCOPE. This specification covers the material requirements for organic material used in conjunction with amending or manufacturing topsoil and for erosion control products.

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Type A. Compost for Turf Establishment, Sodding, and Planting. Compost for Erosion/Sediment Control Filter Berms shall have a minimum organic-matter content of 30% (dry-weight basis) as determined by loss on ignition.

Product shall be loose and friable, not dusty, and have a moisture content of 35% - 60%, (wet weight basis).

Particle size shall be < 13 mm, (100% passing).

Soluble salts concentration shall be < 4.0 mmhos/cm (ds/m), maximum.

Compost shall be stable to very stable.

pH shall be between 6.0-8.5.

Type B. Compost for Erosion/Sediment Control Filter Berms. Compost for Erosion/Sediment Control Filter Berms shall meet the requirements of AASHTO Designation MP 9-03 and as follows:

Minimum organic matter content 25% - 65% (dry-weight basis) surfaces to be vegetated; 25% - 100% (dry weight basis) surfaces to be left unvegetated.

Gradation:

Sieve Size	Percent Passing by Weight
75 mm	100
25 mm	90 to 100
19 mm	70 to 100
6 mm	30 to 75
Maximum particle length; 150 mm	

Soluble salt concentration shall be 5 mmhos/cm; (ds/m) maximum.

Compost shall be stable to very stable

pH shall be between 5.0 - 8.5.

Type C. Compost for Erosion/Sediment Control Compost Blankets (Mulch for Seeded Areas). Compost for Erosion/Sediment Control Compost Blankets, (mulch for seeded areas), shall meet the requirements of AASHTO Designation MP 10-03 and as follows:

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Bulk Density – 636 to 812 kg/m³

Moisture Content – 30% to 60% by total weight

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Maximum particle length; 150 mm	

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