PittMoss® Technical Data

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PITTMOSS® GENERAL DESCRIPTION

PittMoss® is comprised of formatted ligno-cellulosic fibers. The fibers are formatted into particles through a patented process that granulates the fibers to maximize internal pore spaces within an individual particle.The particles are slightly ridged, spherical to semi-spherical,and occasionally flattened or elongated.The material is hydrophilic. The total aggregate serves to hold and absorb air, water,and other fluids. It has primary applications in agriculture,horticulture,and where a naturally carbon rich substrate is desirable

RAW MATERIALS

PittMoss® is made of cellulose, hemicellulose, lignin, and proprietary natural additives.It is primarily derived from recycled newspaper and/or other cellulose based materials.

PHYSICAL PROPERTIES

Dry Bulk Density:	As shipped: 0.25-0.4g/cc,
Oven dry:	0.1-0.14g/cc
Typical Moisture:	50 to 70% of total massat manufacture
Moisture Holding Capacity:	60 to 70% by volume as shipped or 5 to 6 times dry weight
Particle Size Distribution:	See Figure A
Air Porosityat Saturation:	8 to 20 % (depending on compaction)

CHEMICAL PROPERTIES

pH:	6.5 –7.5
EC:	0.2 –0.4 (SME)
CEC:	10-15meq/100 grams
C/N Ratio:	200 –300:1
Typical SME Analysis:	See Table 1
Contaminants:	None

BIOLOGICAL PROPERTIES

Base Materials:	Cellulose, hemicellulose, lignin, and proprietary additives
Flora and Fauna:	Pathogen free, no insects, or plant disease organisms at manufacturing

ENVIRONMENTAL COMPATABILITY

Air:	No known volatile or noxious compounds
Water:	Fully compatible, non-polluting, no toxic leachates
Soil:	Combines with the soil like other cellulosic materials (leaves, grass, wood, etc.)
Fish & Wildlife:	No known toxic materials.

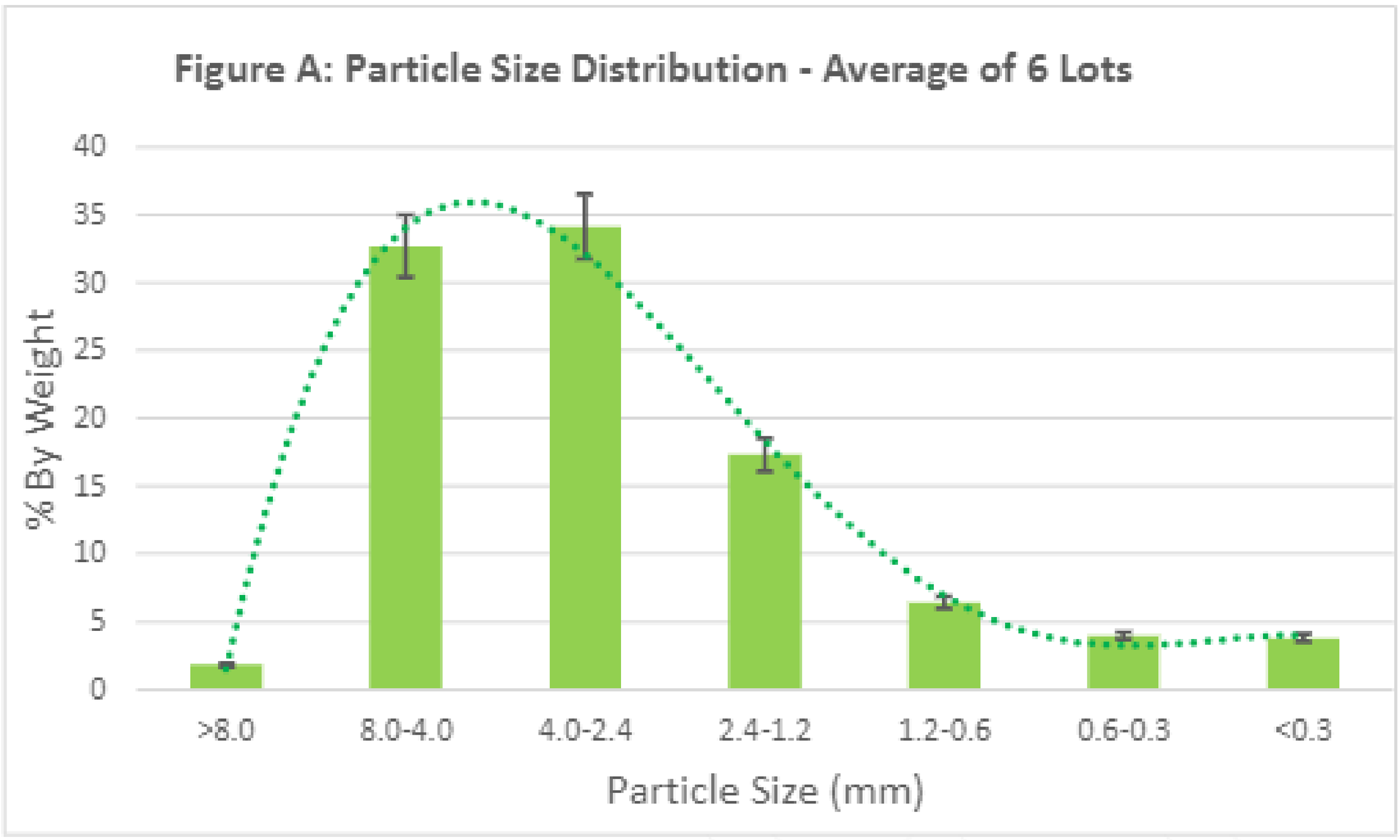

TABLE 1:TYPICAL MINERAL CONTENT IN A WATER SATURATED MEDIA EXTRACT ANALYSIS

Mineral	PPM
Nitrate	0 -2.0
Ammonium	0 -1.0
Phosphorus	1.0 -4.0
Potassium	1.0 -4.0
Calcium	30 -60
Magnesium	2.0 -8.0
Sulfur	50 -90
Boron	0 -0.3
Iron	0 -2.0
Manganese	0 -2.0
Copper	0.3 -1.0
Zinc	0 -0.1
Molybdenum	0 -0.05
Aluminum	0.2 -2.0
Sodium	20 -40
Chloride	10 -25