MicroC® 1000

PRODUCT INFORMATION

MicroC® 1000 is a proprietary, non-hazardous, green chemical designed specifically for use as a carbon source for biological contaminant removal applications in water/wastewater treatment.

NON-HAZARDOUS

- Eliminates flammability and toxicity concerns of traditional chemicals such as methanol
- Provides capital cost savings vs. installation of flammable liquid storage and feed system
- Non-hazardous product enables rapid and flexible deployment of carbon augmentation solutions

PERFORMANCE ADVANTAGES

- Rapid start-up/acclimation
- Superior cold weather performance

ENVIRONMENTALLY SUSTAINABLE

- Derived from abundant, renewable resources produced in the United States vs. largely imported fossil-fuel derived carbon sources (methanol)
- USDA BioPreferred designation

CONSISTENT AND SUPERIOR QUALITY

- Rigorous end to end quality control program
- Consistent Chemical Oxygen Demand (COD) values
- No product degradation during long-term storage

VALIDATED PERFORMANCE

- MicroC® products in use at over 550 plants in North America
- Performance validated by leading equipment/process suppliers, consulting engineers and academic institutions
- Full scale, documented performance validation for:
  - Nitrate removal
  - Metals removal
  - BOD augmentation
  - Fixed film biological processes (i.e. denitrification filters)
  - Startup/acclimation dynamics
  - Cold weather performance
- Denitrification rates and kinetic parameters determined by Northeastern University

TECHNICAL SERVICES

- Application guidance from team of BNR/contaminant removal experts
- Dedicated support to ensure achievement of contaminant removal goals

SUPPLY CHAIN CAPABILITY & EXPERIENCE

- 20 nationwide MicroC® manufacturing facilities provides redundancy and flexibility , reducing the risk of supply and quality interruptions even during drastic demand changes
- Extensive multi-industry raw material sourcing capability and vast storage infrastructure facilitates ability to offer long term, fixed pricing
- An expansive supply chain infrastructure designed for proximity to customers, reduces transportation costs and improves responsiveness

PACKAGING

- Bulk (1000-4500 gallon)*
- 265-gallon IBC/tote
- 55-gallon drum
- 30-gallon drum

USE OF THIS PRODUCT FOR WATER TREATMENT IS PROTECTED BY UNITED STATES PATENT #7,144,509/ CANADIAN PATENT #2,476,025

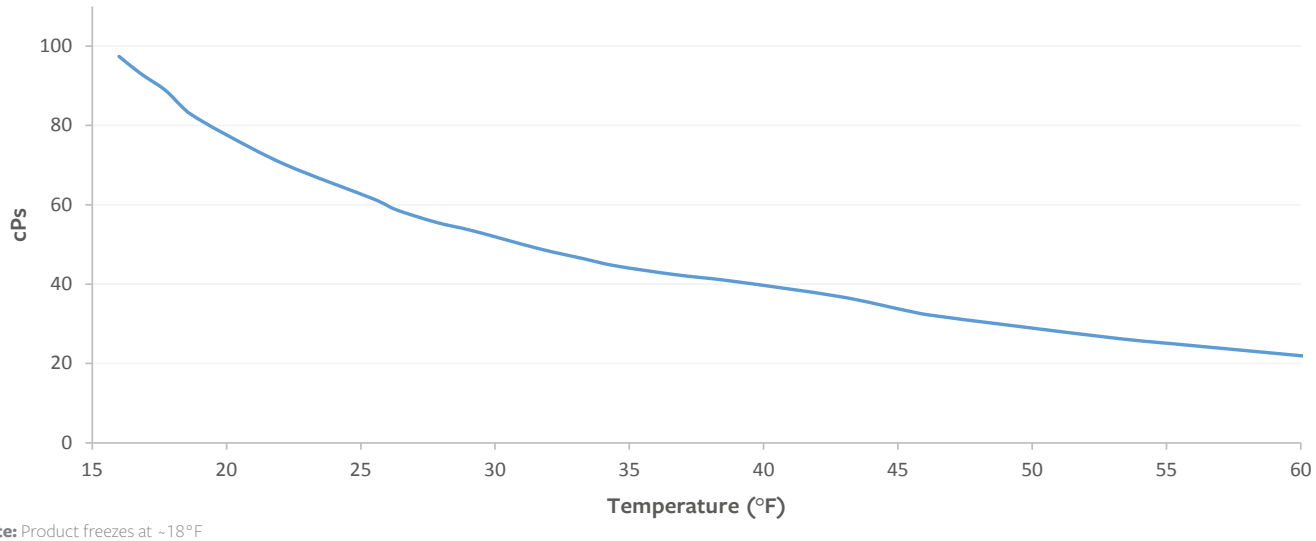
EOSi Empowering Clean Water®

*Maximum volume 4800 gallons in some markets

TECHNICAL SPECIFICATIONS

PROPERTY	SPECIFICATIONS	TYPICAL VALUE	TEST METHOD
Specific Gravity at 20°C	1.215-1.235	1.220	ASTM D891
Bulk Density (lbs/gal)	10.13-10.30	10.17	ASTM D891
pH	4.0, min	5	ASTM E-70
Viscosity (cPs) at 20°C	60, max	20	ASTM D2196
Flash Point	No Flash	No Flash	ASTM D 93
Solubility	100%, min	100%	ASTM E1148
Freezing Point (°C)	-7, max	-7	ASTM D1177
COD (mg/L)	670,000, min	680,000	ASTM D1252

TEMPERATURE / VISCOSITY RELATIONSHIP



Note: Product freezes at ~18°F

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 98%