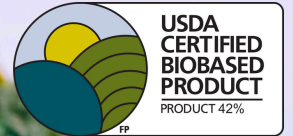


OptiFILL⁺

by  preferred



ANTIMICROBIAL, ANTI-STATIC COATED TURF INFILL

Preferred has 15 years of experience coating sand, 16 USPTO patents granted and numerous patent applications pending. Preferred owns and operates the natural sand processing plant, the proprietary state of the art coating plant, and the packaging plant in Genoa, NE. Preferred's facility runs on hydroelectric power and directly supports two hydroelectric plants in Nebraska by repurposing recycled wasted product from the hydroelectric power generating process.

Applications



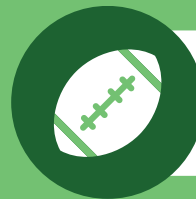
RESIDENTIAL



PETS



PLAYGROUND



ATHLETIC FIELDS



PUTTING GREENS



ROOFTOPS

HIGH PERFORMANCE

- OPTIFILL+[®] IS UV AND WEATHERING RESISTANT, WITH NO DETECTABLE COLOR CHANGE OR DEGRADATION AFTER 5,000 HOURS OF ACCELERATED WEATHERING
- OPTIFILL+[®] IMPROVES THE DRAINAGE OF THE TURF SYSTEM FOR MAXIMUM FLUID (WATER/PET URINE) INFILTRATION

ENVIRONMENTALLY FRIENDLY

- OPTIFILL+[®] IS MANUFACTURED BY AN ECO-FRIENDLY, VOC FREE COATING PROCESS USING A NATURAL RIVER WASHED SILICA SAND SUBSTRATE
- NO COLOR LEACHING IN WATER UP TO 250 °F IN AUTOCLAVE
- PRODUCED USING HYDROELECTRIC POWER

SAFE FOR YOUR HOME & FAMILY

- ANTIMICROBIAL COATING PREVENTS GROWTH OF BACTERIA, FUNGI AND MOLD, KEEPING YOUR TURF CLEAN AND DISINFECTED
- ODOR CONTROL PROPERTIES FOR AMMONIA (PET URINE)
- PHTHALATES, LEAD AND HEAVY METALS FREE
- NON-FLAMMABLE, NON-TOXIC DUST FREE

DURABLE & REUSABLE

- USING A HIGH-QUALITY SAND SUBSTRATE, OPTIFILL+[®]'S INNOVATIVE COATING IS DESIGNED TO ENHANCE DURABILITY TO ENSURE LONGEVITY AND REUSABILITY OF THE INFILL
- STABLE, NON-DEGRADABLE ANTIMICROBIAL

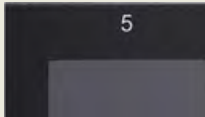
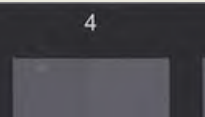
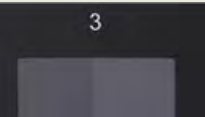
PRODUCT DATA

Available Sizes	12/20, 16/30, 20/40, 30/50, 40/70 (Special sizes available upon request)
Material	Polymeric coated natural silica sand
Density	90-95 lb/ft ³ (ASTM F-1815-06)
Roundness	0.6-0.9 (Krumbein Shape Factor ISO13503-2/API RP19C)
Drainage	+290 in/hr (Infiltration EN 12616:2013)
Toxicity	No heavy metal leaching (ASTM F3188/Prop 65)
Weathering / UV Stability	No detectable color change after +3,000 hours of accelerated weathering
Antimicrobial / Antifungal	Long-term protection against gram +ve/-ve bacterial (ASTM E2149) and fungal activity (ASTM G 21-15)
Turbidity	Negligible dust < 15 NTU (API RP 19C)
Flammability	Nonflammable (ASTM D2859-06)
Angle of Repose	± 30° (ASTM C1444)
Leaching	No color leaching in water up to 250 °F in autoclave Stable, Non-degradable antimicrobial
Availability	Available in 50 lb bags, Super Sacks and bulk (Rail and truck)

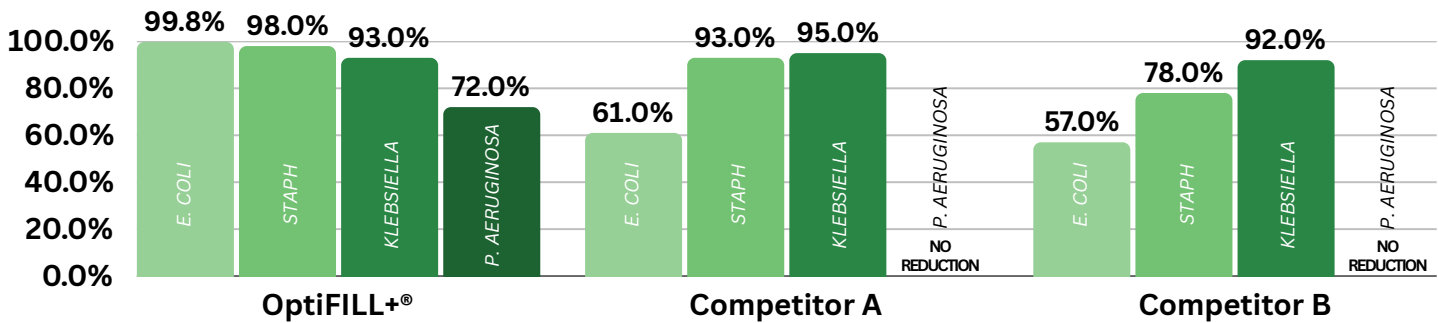
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Accelerated Weathering

Property	OptiFILL+ [®]	Competitor A	Competitor B
Weathering / UV Stability	Color is stable beyond +2,000 hours of accelerated weathering	Color starts changing after 500 hours of accelerated weathering	Color starts changing at 1,000 hours of accelerated weathering
Gray Scale value after 3,000 hours of accelerated weathering	 ≥ 4/5	 < 3	 < 4

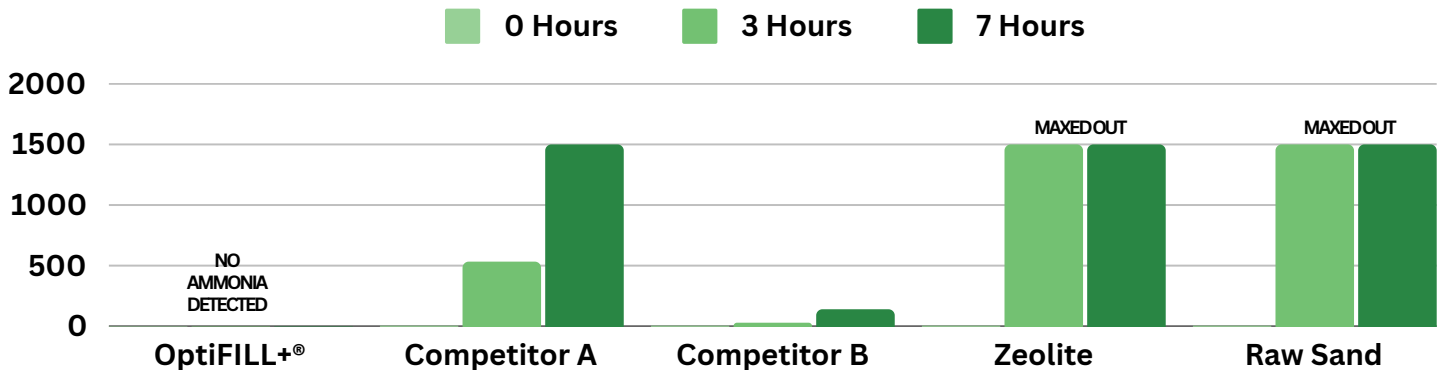
Antimicrobial Reduction



ESCHERICHIA COLI; STAPHYLOCOCCUS AUREUS; KLEBSIELLA PNEUMONIAE; PSEUDOMONAS AERUGINOSA

Ammonia Reduction - Proteus vulgaris*

Average Detected Ammonia Conc. (PPM)



SOURCES: #96348/6690, #96388/6699; LABOSPORT R22449CAN-A1; MICROSTAR LAB REPORTS - R2021-385; R2021-771, R2021-456-2; R2023-39-2

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PREFERRED SANDS IS PROUD TO ANNOUNCE THAT OPTIFILL+®, OUR ANTIMICROBIAL COATED SAND INFILL, HAS BEEN AWARDED THE USDA CERTIFIED BIOBASED PRODUCT LABEL. WITH OVER 40% BIOBASED CONTENT, OPTIFILL+® CONTINUES TO SET THE STANDARD FOR INNOVATION IN THE ARTIFICIAL TURF INDUSTRY, OFFERING A SUSTAINABLE SOLUTION FOR SPORTS FIELDS, LANDSCAPING, AND PET APPLICATIONS.

USDA United States
Department of
Agriculture
Rural Development



CERTIFICATE OF USDA BIOPREFERRED® PROGRAM PARTICIPATION

Congratulations to

Proppant Holdings LLC DBA Preferred Sands Holding Company LLC's
OptiFILL+®

for receiving the USDA Certified Biobased
Product Label on 10/22/2024 .



LEED (LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN) CREDITS

- THE USDA BIOPREFERRED CERTIFICATION CAN CONTRIBUTE TO EARNING LEED CREDITS, ESPECIALLY IN THE MATERIALS AND RESOURCES (MR) CATEGORY, WHICH EMPHASIZES THE USE OF SUSTAINABLE MATERIALS
- SPECIFICALLY, USING BIO-BASED PRODUCTS CAN HELP IN FULFILLING THE REQUIREMENTS FOR POINTS RELATED TO ENVIRONMENTALLY PREFERABLE PRODUCTS, WHICH IS A KEY COMPONENT FOR LEED CERTIFICATION.
- MANY GOVERNMENT AND COMMERCIAL PROJECTS, PARTICULARLY IN PARKS AND SPORTS FIELDS, ARE NOW REQUIRING OR INCENTIVIZING LEED-CERTIFIED BUILDINGS AND DEVELOPMENTS. OFFERING A PRODUCT WITH THE USDA BIOPREFERRED CERTIFICATION GIVES YOUR CUSTOMERS A DIRECT PATH TO IMPROVING THEIR LEED SCORES, MAKING IT AN APPEALING CHOICE.



COATED INFILL FOR ATHLETIC FIELDS AND PLAYGROUNDS



**RELIABLE
LONGEVITY**

OptiFILL+® provides a durable, low-maintenance solution that resists compaction, ensuring long-lasting, level fields with minimal grooming. It delivers consistent performance year-round, offering athletes and playground users a reliable playing surface in any season.



**ANTIMICROBIAL
PROTECTION**

OptiFILL+® uses an optimized antimicrobial agent that helps inhibit the growth of bacteria, mold, and mildew on the turf. This feature keeps the surface cleaner and healthier, reducing odors and the risk of infections, while maintaining a fresher field and playground over time.



**MEETS OR EXCEEDS
COMMON STANDARDS, SUCH
AS AAA, ROTATIONAL
RESISTANCE, G-MAX, & HIC***



**TURF
SAFETY**

The consistent round shape and uniform size of OptiFILL+® particles provide a stable and cushioned surface, reducing the risk of injuries for turf users meeting or exceeding common standards, such as AAA, rotational resistance, G-max, and HIC.



**ENVIRONMENTAL
FRIENDLINESS**

OptiFILL+® features a renewable bio-based coating that reduces fossil fuel use and is designed to be reusable and recyclable, making OptiFILL+® the environmentally responsible choice. Preferred will recycle any returned coated sand infill and provide a credit toward your next OptiFILL+® purchase.



**ANTISTATIC
FEATURE**

OptiFILL+®'s advanced antistatic feature effectively reduces static buildup on both sports fields and playground turf. This is especially beneficial in dry conditions, where static can become more pronounced, providing athletes and playground users with a more comfortable environment for play.

*Testing was performed using a shock pad as per industry guidelines.

INFILL FOR ARTIFICIAL TURF



CLEAN, LOW DUST

- ECO-FRIENDLY, RIVER WASHED TURF INFILL
- DUST AND CHEMICAL ADDITIVE FREE
- LOW TURBIDITY: < 15 NTU

ROUND PARTICLES

- SPHERICAL AND DURABLE SAND INFILL PARTICLES THAT MINIMIZE TURF BLADES WEAR AND TEAR
- TAILORED PARTICLE SIZE FOR SUPERIOR DRAINABILITY

MESH SIZE	PARTICLE SIZE DISTRIBUTION (MM)
16	0.0
20	0.4
25	10.6
30	39.3
35	29.5
40	16.9
50	3.3
Pan	0.0
Total	100.0

**OTHER SIZES AVAILABLE UPON REQUEST*

SOURCES: PROPTESTER 101-15-03-43-16-B

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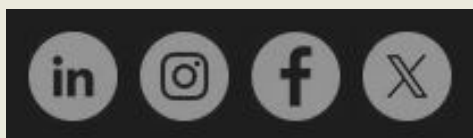
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GET A FREE QUOTE!**



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OptiFILL+[®]
by  **preferred**

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