



MONDO

# MONDOTURF ECOFILL® STAR

## ECOFILL® STAR GRANULES:

ENGINEERED TO DUPLICATE  
THE PERFORMANCE OF NATURAL GRASS.

FREE OF POTENTIALLY CARCINOGENIC SUBSTANCES.

PROVIDE LOWER PLAYING SURFACE TEMPERATURES.

DESIGNED TO PRESERVE THE ENVIRONMENT.

INSPIRED BY NATURE, GREEN BY SCIENCE





# MONDOTURF

## ECOFILL® STAR GRANULES

INSPIRED BY NATURE, GREEN BY SCIENCE

**Free of carcinogenic substances: Heavy metals, aromatic amines, polynuclear aromatic hydrocarbons (PAHs)**

### Health and Athletic Performance

Heavy metals, aromatic amines, polynuclear aromatic hydrocarbons (PAHs) may increase the risk of cancer.

### Green Facts

Do not release heavy metals, aromatic amines, and polynuclear aromatic hydrocarbons into the environment.

**50% less overheating versus traditional black rubber granules\*\***

### Health and Athletic Performance

The extra heat emitted by traditional black rubber granules increases the risk of dehydration, general discomfort, and premature fatigue.

### Green Facts

Lower surface temperatures will reduce the heat island effect. Reduces the water consumption required to keep the field within tolerable temperatures.

### Life-cycle Cost

The extra heat emitted from black rubber may cause premature oxidation of polyethylene fibers.

**80% lower frequency vibrations versus traditional black rubber granules.\*\*\***

### Health and Athletic Performance

High frequency vibrations on the body, typical of traditional black rubber granules, cause balance problems, instability, column pain, cervical and lumbar pain, discomfort, and may lead to premature fatigue.

**70% lower energy return than traditional black rubber granules\*\*\*\***

### Health and Athletic Performance

Excessive energy return typical of traditional black rubber granules may exert additional stress to the athlete's muscles and joints and may lead to premature fatigue.

**Virtually odor free**

### Health and Athletic Performance

Annoying odor, typical of traditional black rubber granules, may cause discomfort and can reduce athletic performance.

### Green Facts

Annoying odor typical of traditional black rubber granules may contaminate residential and recreational areas surrounding the fields.

**Sulfur Free**

### Life-cycle Cost

High concentration of sulfur typical of traditional black rubber granules may facilitate premature oxidation of polyethylene fibers.

**100% premanufactured**

100% premanufactured under a strict factory controlled process. Mondo is certified ISO 9001.

### Health and Athletic Performance

Consistent resiliency across the entire playing field area ensures optimal athletic performance and ball behaviour, consistent Gmax and shock absorption, and may reduce the risk of injuries.

**40% more dense than traditional black rubber granules**

### Health and Athletic Performance

Reduces granule migration thus providing a more uniform and stable field, and may improve athletic performance and reduce injuries.

### Life-cycle Cost

Reduces granule migration thus providing better protection to fibers.

**17.5% post-consumer recycled content**

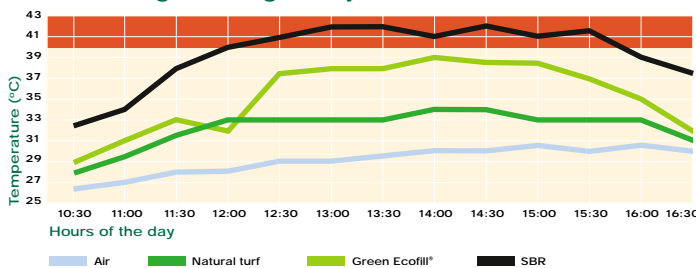
### Green Facts

May contribute to LEED Credits

### RESILIENCY

Type of System	Shock Absorption	Energy Return
Natural Grass	60.3%	4.4%
Mondoturf Ecofill® Star	63.6%	7.8%
Reground Tires & Sand	61.3%	28.6%

Heat Gauge reading on adjacent full size Fields



\*\* = (Temp EF - Temp SBR) / (Temp SBR - Temp Natural Grass) = (35.3-39.3)/(39.3-32.2) = -4.0/7.1 = -56.34%

\*\*\* = (Hz EF - Hz SBR) / Hz SBR = (2.0-18.0)/18.0 = -16/18 = -88.89%

\*\*\*\* = (Energy Return EF - Energy Return SBR) / Energy Return SBR = (7.8-28.6)/28.6 = -20.8/28.6 = -72.73%



Where the Games come to play

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Certified ISO 14001

