



Golf Sand

BENEFITS OF GOLF SAND:

- Less than 3% Silt and Clay
- Hi-Quality Golf Sand

OPTA MINERALS for all your CONSTRUCTION NEEDS:

- Barco Silica Sand
- Temisca Silica
- Silica Flour
- Glass Beads for Pavement Markings
- Golf Sands
- Coloured Sand
- Bentonite

Information Bulletin

The golf industry, over the years, has become one of our important concerns. We supply the market with a high quality sand that meets the USGA recommendations.

Particle Size	USGA Guidelines	Temisca Sand
Very Coarse	Maximum 10%	2.0%
Course Medium	Total >65%	81.8%
Fine & Very Fine	Maximum 20%	14.3%
Total Sand		98.1%

Criteria for good bunker sand evaluation

	Criteria	Temisca Sand
Silt and Clay	<3%	1.8
Crusting Tendency	None	No Crusting Tendency
Fried Egg Lie Tendency	<2.5g/cm ³ - none	2.6g/cm ³ - none
Particle Shape	Angular - Sub-Angular	Sub-Angular & Sub-Rounded
Acid Reaction	Non-Calcareous	Non-Calcareous
Colour	Generally Whiter Sands preferred.	White to Light Tan

According to Golf Course Management, the sands selected for bunkers should have less than 3% silt plus clay. Ball percentage studies indicated that sands requiring greater than 2.4g/cm³ were reported to have few fried egg lies. In some instances glare problems can occur with sands that are white, and it may be desirable to avoid one that reflects too much light.

Independent lab testing done by Standard Soil Consultants.

Highlights

Due to the quality of our sand, over a hundred golf courses have their bunkers filled with our sand. Emerald Hills Golf Club situated in Stouffville (Ontario,

Canada) hosted the Nations Cup in July of 1999, which is part of the LPGA tour. The bunkers are dressed with Temisca Bunker Sand coded as USGA bunker cream.

OPTA MINERALS has production and warehouse facilities in the following locations:

Waterdown, ON; Lachine, QC;
 St-Bruno-de-Guigues, QC; Brantford, ON;
 St-Germain-de-Grantham, QC; Norfolk, VA;
 New Orleans, LA; Los Angeles, CA;
 Hardeeville, SC; Attica, NY; Baltimore, MD;
 Keeseville, NY; Walkerton, IN; Milan, MI;
 Richfield, OH.