

**BEI****Barnes Environmental International***A division of Stake Technology Ltd.*

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**TECHNICAL DATA SHEET****BARCO 32**

*Barco silica sands are used for a variety of foundry, steel manufacture, and industrial applications.*

**Typical Chemical Analysis:**

Silicon Dioxide (total)	SiO <sub>2</sub>	> 99.50%
Titanium Oxide	TiO <sub>2</sub>	~ 0.10%
Potassium Oxide	K <sub>2</sub> O	~ 0.10%
Calcium Oxide	CaO	~ 0.03%
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	~ 0.03%
Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	~ 0.01%
Loss On Ignition	LOI	~ 0.12%

<b>Colour:</b>	White particles	<b>Bulk Density:</b>	98 lbs./ft. <sup>3</sup>
<b>Uniformity Coefficient:</b>	1.50	<b>Effective Size:</b>	0.33 mm
<b>Grain Shape:</b>	Rounded	<b>Moisture:</b>	< 0.20%
<b>Specific Gravity:</b>	2.65	<b>Hardness (Mohs):</b>	6.5 to 7.0
<b>Profile:</b>	2.2 – 2.5 mil @ 100 psi		
<b>Solubility:</b>	Insoluble in water and common organic solvents		

**Typical Screen Analysis:**

<u>U.S. Mesh</u>	<u>% Retained</u>
20 Mesh	0.1
30 Mesh	9.4
40 Mesh	59.6
50 Mesh	28.4
70 Mesh	2.1
100 Mesh	0.3
140 Mesh	Trace
<b>GFN</b>	<b>32.5</b>