

## PLAY Sand

**Description 0.15 – 0.75mm play sand. Main use = indoor/outdoor childrens play areas**

The sand shall be clean, washed and hydrosized to remove the majority of fines, silts and clay particles.

The sand will be from a natural uncrushed source with sub-angular to sub-rounded grains free of any friable or agglomerated grains.

The sand will be resistant to degradation during normal handling, placing and commissioning works.

### Mechanical Analysis

Sieve Size	% Passing	Typical Grading
1	95-100	98
0.85	90-100	97
0.50	80-100	89
0.30	40-80	60
0.25	10-20	15
0.18	0-10	2
0.125	0-1	0.2
0.063	0-0.5	0.1

<b>Silica Content</b>	>90%
<b>Effective Size</b>	D 10 = 0.22mm (+/- 5%)
<b>Uniformity Co-efficient</b>	< Or = 2.00
<b>Bulk Density Moist (Loose)</b>	1500 kg /m <sup>3</sup>
<b>Bulk Density Moist (Compacted)</b>	1650 kg / m <sup>3</sup>
<b>Moisture Content</b>	4 – 8% w/w
<b>Silt/Clay Content</b>	< 0.5% w/w

### Chemical Analysis

		%
<b>Silica</b>	<b>SiO<sub>2</sub></b>	90.90
<b>Alumina</b>	<b>Al<sub>2</sub>O<sub>3</sub></b>	4.19
<b>Titania</b>	<b>TiO<sub>2</sub></b>	0.194
<b>Iron</b>	<b>FE<sub>2</sub>O<sub>3</sub></b>	1.383
<b>Magnesium</b>	<b>MgO</b>	0.34
<b>Calcium</b>	<b>CaO</b>	0.35
<b>Sodium</b>	<b>Na<sub>2</sub>O</b>	0.72
<b>Potassium</b>	<b>K<sub>2</sub>O</b>	1.54
<b>Manganese</b>	<b>Mn<sub>3</sub>O<sub>4</sub></b>	0.0236
<b>Chromium</b>	<b>Cr<sub>2</sub>O<sub>3</sub></b>	0.0035
<b>Loss on Ignition</b>	<b>L on I</b>	0.83

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